

**RFXpress® RFX100**  
**Advanced RF/IF/IQ Waveform Creation and Editing Software**  
**For the AWG5000 & AWG7000 Series Signal Generators**  
**Programmer Manual**



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**Tektronix**



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RFXpress® RFX100 Programmer Online Help, part number 076-0216-04.

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# Getting Started





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# Introduction

This online programmer manual provides information on how to use commands for remotely controlling your instrument. With this information, you can write computer programs that will perform functions such as setting the setup and multi-carrier functions.

The programmer manual is divided into sections. Each section describes a closely related group of commands. For example, all the compile settings commands are in one section and generic signal setup options are grouped in another section.

The RFXpress programmatic interface works seamlessly with the AWG7000 and AWG5000 series instruments programmatic interface. It supports all the interfaces of the AWG7000 and AWG5000 series instruments. Using a single VISA or raw socket session, it is possible to communicate with both RFXpress and AWG.

For information on the Remote Control, GPIB Parameters, LAN Parameters, Connecting to the Instrument using GPIB, and Setting up GPIB Communication, refer to the *AWG5000 and AWG7000 Series Arbitrary Waveform Generators Programmer Manual*.

## Documentation

In addition to this RFXpress Programmer Online Guide, the following documentation is included with this application:

- RFXpress Quick Start User Manual. The Quick Start User Manual has information about installing and operating your instrument.
- RFXpress User Online Help. The online help provides in-depth operation and user interface help.
- RFXpress RFX100 User Manual (PDF). The user manual provides in-depth operation and user interface help.
- RFXpress RFX100 Installation Manual (PDF). The install manual provided in-depth installation help.

# Sample Program

The sample program illustrates methods you can use to control RFXpress.

## Application Example: Radar

The following is an example on how to generate a LFM waveform with coherent carrier for pulse compression using PI commands.

1. Start RFXpress.  
Command: `RFXPress`
2. Select the Radar application.  
Command: `RFXPress:SELApp "Radar"`
3. Set the Carrier Magnitude (Peak) to 0dBm (default).  
Command: `RFXPress:RADAR:CARRIER:MAGNitude 0`
4. Set the Carrier Frequency to 100 MHz (default).  
Command: `RFXPress:RADAR:CARRIER:FREQUENCY 100E06`
5. Select Coherent Carrier (default).  
Command: `RFXPress:RADAR:CARRIER:COHERent ON`
6. Set Pulse Shape to Rectangular.  
Command: `RFXPress:RADAR:PULSE:PENVELOPE:SHAPE "Rectangular"`
7. Set Start Time to 0 ps (default).  
Command: `RFXPress:RADAR:PULSE:PENVELOPE:TIME:STARTvalue 0`
8. Set Pulse Width to 10  $\mu$ s at 100%.  
Commands: `RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE 10E-06`  
`RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:POWER "Hundred"`
9. Set Off Time to 198  $\mu$ s.  
Command:  
`RFXPress:RADAR:PULSE:PENVELOPE:TIME:OFFTime 198E-06`
10. Set Amplitude Relative to Carrier to 0 dB (default).  
Command: `RFXPress:RADAR:PULSE:PENVELOPE:RELAmplitude 0`
11. Set Offset from Carrier Frequency to 0 Hz (default).  
Command: `RFXPress:RADAR:PULSE:PENVELOPE:CAROffset 0`
12. Set Repeat to 1 (default).

Command: RFXPress:RADAR:PULSE:PENVELOPE:REPEAT 1

13. Select Modulation to Linear Frequency Modulation.

Command: RFXPress:RADAR:PULSE:MODULATION "Linear Frequency Modulation"

14. Set Sweep Range to 10 MHz.

Command:  
RFXPress:RADAR:PULSE:MODULATION:LFM:SWPRANGE 10E06

15. Set Frequency Sweep to Low to High.

Command: RFXPress:RADAR:PULSE:MODULATION:LFM:FRQSweep  
"Low to High"

16. Set Signal Format to IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

17. Set Signal Format to IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

18. Select Automatic Oversampling Calculation option.

Command: RFXPress:COMPILER:AVERSAMPL ON

19. Compile.

Command: RFXPress:COMPILER

### **Application Example: Generic signal**

The following is an example of how to generate a multi carrier RF signal using PI commands.

1. Start RFXpress.

Command: RFXPress

2. Select Generic signal application.

Command: RFXPress:SELAPP "Generic signal"

3. Select the signal type as IF/RF.

Command: RFXPress:COMPILER:SIGFORMAT IFRF

4. Select Multicarrier.

Command: RFXPress:GENPURPOSE:CARTYPE MULTI

5. Add two carriers.

Command: RFXPress:GENPURPOSE:ADDCARRIER 2

6. Set the Multicarrier state to ON.

- Command: `RFXPress:GENPurpose:MLTCarrier:STATE ON`
7. Set the Multicarrier option to Range.  
Command: `RFXPress:GENPurpose:MLTCarrier:OPTion RANGE`
  8. Set the Base Frequency to 10 MHz.  
Commands: `RFXPress:GENPurpose:MLTCarrier:BSEFreq 10E06`
  9. Set the Carrier Spacing to 10 MHz.  
Command: `RFXPress:GENPurpose:MLTCarrier:CARSpacing 10E06`
  10. Set the Base Data of Carrier-1 to PRBS.  
Command: `RFXPress:GENPurpose:CARRIER1:BASEData PRBS`
  11. Set the PRBS Base Data of Carrier-1 to 15.  
Command: `RFXPress:GENPurpose:CARRIER1:BASEData:PRBS "15"`
  12. Set the Modulation for the Carrier-1 to QPSK.  
Command: `RFXPress:GENPurpose:CARRIER1:MODulation "QPSK"`
  13. Repeat Steps 10 to 12 for the remaining carriers, setting the Base Data to PRBS 21 and PRBS 7 respectively. Set the modulation to QPSK.
  14. Set the Power Ramping for Carrier-1 to ON.  
Command: `RFXPress:GENPurpose:CARRIER1:PWRRamping:TURNOn ON`
  15. Set the Power Ramping Function to Linear.  
Command:  
`RFXPress:GENPurpose:CARRIER1:PWRRamping:FUNCTION LINEar`
  16. Set the Power Ramping time to 100 ns.  
Command:  
`RFXPress:GENPurpose:CARRIER1:PWRRamping:TIME 100E-09`
  17. Add a symbol with the symbol value 0 in the power ramping table.  
Command:  
`RFXPress:GENPurpose:CARRIER1:PWRRamping:ADDSymbol 0`
  18. Select the added symbol with value 0.  
Command:  
`RFXPress:GENPurpose:CARRIER1:PWRRamping:SELSymbol 0`
  19. Set the Level parameter to 0.  
Command: `RFXPress:GENPurpose:CARRIER1:PWRRamping:LEVEL 0`
  20. Repeat steps 17 to 19 two more times, adding the following parameters:  
Symbol = 100 and Level = -60 dB Symbol = 200 and Level = 0 dB

- 21.** Set the Carrier Leakage (I/Q Impairments) to ON for Carrier-2.

Command:  
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:TURNOn ON
- 22.** Set the Carrier Leakage (I/Q Impairments) I Value to 5 for Carrier-2.

Command:  
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:IVALue 5
- 23.** Set the Carrier Leakage (I/Q Impairments) Q Value to 5 for Carrier-2.

Command:  
RFXPress:GENPurpose:CARRIER2:IQImpairment:CARRLeakage:QVALue 5
- 24.** Set the Offset (Interference Addition) to ON for Carrier-3.

Command:  
RFXPress:GENPurpose:CARRIER3:INTFaddition:OFFSet:TURNOn ON
- 25.** Set the Offset (Interference Addition) frequency to 10 MHz for Carrier-3.

Command:  
RFXPress:GENPurpose:CARRIER1:INTFaddition:OFFSet:FREQoffset 10E06
- 26.** Set the Automatic Waveform Length Calculation option to OFF.

Command: RFXPress:COMPile:AWFLength OFF
- 27.** Set the Waveform Length to 500 K.

Command: RFXPress:COMPile:WLENGTH 500000
- 28.** Set the Waveform Length Type to Samples.

Command: RFXPress:COMPile:WLType SAMPLES
- 29.** Set the Automatic Oversampling Calculation option to OFF.

Command: RFXPress:COMPile:AOVERsamp1 OFF

**30.** Set the Oversampling to 6.00.

Command: RFXPress:COMPIle:OVERsamp1 6.00

**31.** Compile.

Command: RFXPress:COMPIle





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# Syntax and Commands



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# Command Syntax

For information on the Syntax Overview, Command and Query Structure, Clearing the Instrument, Command Entry, Parameter Types, SCPI Commands and Queries, refer to the *AWG5000 and AWG7000 Series Arbitrary Waveform Generators Programmer Manual*.



# Command Groups

## Launch Commands

Use the following command to launch RFXpress.

Table 2-1: Launch commands

Command	Description
<a href="#">RFXPress</a>	Launches the RFXpress application.
<a href="#">RFXPress:SELApp</a>	Sets or returns the currently selected application.

## File Commands

Use the following commands to do the framework related operations.

Table 2-2: File commands

Command	Description
<a href="#">RFXPress:RFSFile:LOAD</a>	Loads the specified .rfs file.
<a href="#">RFXPress:RFSFile:SAVE</a>	Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected.
<a href="#">RFXPress:RSTDefault</a>	Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

Table 2-3: Data file commands

Command	Description
<a href="#">RFXPress:RFDFile:LOAD</a>	Loads the waveform contained in the specified .rfd file in to the waveform list.
<a href="#">RFXPress:RFDFile:SAVE</a>	Saves the currently selected waveform in the waveform list to a .rfd file.
<a href="#">RFXPress:RFDFile:SELEct</a>	Selects the specified waveform in the waveform list.

Table 2-4: Import from file commands

Command	Description
<a href="#">RFXPress:IMPORtfile:BASEband</a>	Sets or returns the import file baseband status.
<a href="#">RFXPress:IMPORtfile:DATAtype</a>	Sets or returns the import file data type selection.
<a href="#">RFXPress:IMPORtfile:FORMat</a>	Sets or returns the import file format selection for .txt and .csv files.
<a href="#">RFXPress:IMPORtfile:IMPORt</a>	Imports the specified file.
<a href="#">RFXPress:IMPORtfile:OVERwrite</a>	Sets or returns the import file overwrite status.
<a href="#">RFXPress:IMPORtfile:TYPE</a>	Set or returns the import file type filter.

**Table 2-5: Waveform list commands**

Command	Description
<a href="#">RFXPress:WLISt:CALibration:APPLY</a>	Applies calibration on the selected files in the waveform list. Select the waveform to calibrate using the <a href="#">RFXPress:WLISt:SELWaveform</a> command.
<a href="#">RFXPress:WLISt:CLRSelect</a>	Clears the selected waveform from the waveform list.
<a href="#">RFXPress:WLISt:SELWaveform</a>	Selects the waveforms from the waveform list. The input waveform name should be present in the waveform list.

## Compile Settings Commands

Use the following commands to set the compile settings parameters.

**Table 2-6: Compile settings commands**

Command	Description
<a href="#">RFXPress:COMPile</a>	Compiles to generate waveforms.
<a href="#">RFXPress:COMPile:CORRection:CHFour</a>	Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.
<a href="#">RFXPress:COMPile:CORRection:CHONE</a>	Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.
<a href="#">RFXPress:COMPile:CORRection:CHTHree</a>	Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.
<a href="#">RFXPress:COMPile:CORRection:CHTwo</a>	Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.
<a href="#">RFXPress:COMPile:CORRection:FNAME</a>	Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.
<a href="#">RFXPress:COMPile:ADJWrap</a>	Enables and disables wrap-around.
<a href="#">RFXPress:COMPile:AOverSampl</a>	Sets or returns the auto oversampling calculation option.
<a href="#">RFXPress:COMPile:AWFLength</a>	Sets or returns the auto waveform length calculation option.
<a href="#">RFXPress:COMPile:CPASend</a>	Sets the compile and send option.
<a href="#">RFXPress:COMPile:ICHannel</a>	Sets or returns the I channel (the number of channels depends on the instrument).
<a href="#">RFXPress:COMPile:IINVert</a>	Sets or returns the I Invert status.
<a href="#">RFXPress:COMPile:IQNormfact</a>	Sets or returns the normalization/division factor in the compile settings for IQ.
<a href="#">RFXPress:COMPile:IWFmname</a>	Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ.
<a href="#">RFXPress:COMPile:NORMmode</a>	Sets or returns the normalization mode in compile settings.

Table 2-6: Compile settings commands (cont.)

Command	Description
RFXPress:COMPile:OVERsaml	Sets or returns the oversampling.
RFXPress:COMPile:QCHAnnel	Sets or returns the Q channel (the number of channels depends on the instrument).
RFXPress:COMPile:QINVert	Sets or returns Q Invert.
RFXPress:COMPile:QWFMname	Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ.
RFXPress:COMPile:RADAr:ADJUst	Sets or returns the adjust pulse time or frequency parameters. These values must be adjusted to meet the AWG specifications. This command is applicable only when the selected plug-in is Radar signal.
RFXPress:COMPile:RFChAnnel	Sets or returns the RF channel.
RFXPress:COMPile:RFNOrmfact	Sets or returns the normalization/division factor in the compile settings for IF/RF signals.
RFXPress:COMPile:RFWFmname	Sets or returns the IF/RF waveform name in the compile settings when the signal format is IF/RF.
RFXPress:COMPile:SIGFormat	Sets or returns the signal format in RFXpress.
RFXPress:COMPile:WLENgth	Sets or returns the waveform length.
RFXPress:COMPile:WLTyPe	Sets or returns the waveform length type.

## Generic Signal: Setup Commands

Use the following commands to set the setup parameters for generic signals.

Table 2-7: Generic signal setup commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:ALPha	Sets or returns the Alpha/(B*T) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation: PModulation:MODFreq	Sets or returns the modulating frequency for PM for carrier >n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.
RFXPress:GENPurpose:CARRier<n>:AMPLitude	Sets or returns the amplitude of carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:BBOffset	Sets or returns the baseband offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:FILE	Sets or returns the base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PATtern	Sets or returns the user-defined file for File Base data type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS	Sets or returns the PRBS type of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS: USRDefined:IPOLynomial	Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>.

**Table 2-7: Generic signal setup commands (cont.)**

<b>Command</b>	<b>Description</b>
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial	Sets or returns the user-defined PRBS polynomial expression of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister	Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CHBRipple	Sets or returns the Chebyshev ripple for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CODing	Sets or returns the coding for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:CONLen	Sets or returns the convolution length for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FILTer	Sets or returns the filter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FREQuency	Sets the carrier frequency of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:DATOrg	Sets or returns the file sample data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME	Sets or returns the File Samples file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMat	Sets or returns the file sample format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:MODE	Sets or returns the file sample mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSAMple:SAMRate	Sets or returns the file sampling rate for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg	Sets or returns the file symbol data organization for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAME	Sets or returns the file symbol file name for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:FSYMble:FORMat	Sets or returns the file symbol format for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:KAISer	Sets or returns the Kaiser parameter for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation	Sets the modulation of a carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq	Sets or returns the modulating frequency for AM for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex	Sets or returns the AM modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:ASKEying:MODIndex	Sets or returns the ASK modulation index for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation	Sets or returns the frequency deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq	Sets or returns the modulating frequency for FM for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation	Sets or returns the FSK peak deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSK:NVALue	Sets or returns the 'n' value for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSK:PHROtation	Sets or returns the phase rotation for NDPSK modulation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation	Sets or returns the phase deviation for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:STATe	Sets or returns the state of carrier <n>.
RFXPress:GENPurpose:CARRier<n>:SYMBrate	Sets or returns the symbol rate for carrier <n>.



Table 2-7: Generic signal setup commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:WINDow	Sets or returns the window for carrier <n>.
RFXPress:GENPurpose:CARType	Sets or returns the carrier mode.
RFXPress:GENPurpose:DELCarrier	Deletes the specified carrier from the carrier table.

## Generic Signal: Multi-Carrier Settings Commands

Use the following commands to set parameters for multi-carrier generic signals.

Table 2-8: Multi-carrier commands

Command	Description
RFXPress:GENPurpose:ADDCarrier	Adds 'n' carriers in the carrier table.
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPATH	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPAth	Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPAth	Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNon	Sets or returns the "Turn On" status of multipath settings for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:ANCHor	Sets or returns the carrier as anchor carrier in the multi-carrier table.
RFXPress:GENPurpose:DELAllcarr	Deletes all carriers from the carrier table.
RFXPress:GENPurpose:MLTCarrier:BSEFreq	Sets or returns the multi-carrier base frequency.

**Table 2-8: Multi-carrier commands (cont.)**

<b>Command</b>	<b>Description</b>
<a href="#">RFXPress:GENPurpose:MLTCarrier:BWIDth</a>	Sets or returns the multi-carrier bandwidth.
<a href="#">RFXPress:GENPurpose:MLTCarrier:CARSpacing</a>	Sets or returns the multi-carrier carrier spacing.
<a href="#">RFXPress:GENPurpose:MLTCarrier:CENFrequency</a>	Sets or returns the multi-carrier center frequency.
<a href="#">RFXPress:GENPurpose:MLTCarrier:INIOffset</a>	Sets or returns the multi-carrier initial offset.
<a href="#">RFXPress:GENPurpose:MLTCarrier:OPTion</a>	Sets or returns the multi-carrier option.
<a href="#">RFXPress:GENPurpose:MLTCarrier:PHSShift</a>	Sets or returns the multi-carrier phase shift.
<a href="#">RFXPress:GENPurpose:MLTCarrier:RNDPhase</a>	Sets or returns the multi-carrier phase as random or not.

## Generic Signal: Multipath Commands

Use the following commands to set multipath parameters for generic signals.

**Table 2-9: Multipath commands**

Command	Description
RFXPress:GENPurpose:CARRier<n>:MULTipath:ADDPATH	Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:MULTipath:AMPLitude	Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELAy	Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:DELPAth	Deletes a path with the specified delay in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe	Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPAth	Sets or returns the currently selected path in multipath table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn	Sets or returns the "Turn On" status of multipath settings for carrier <n>.

## Generic Signal: Hopping Commands

Use the following commands to set hopping parameters for generic signals.

**Table 2-10: Hopping impairment commands**

Command	Description
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:ADD	Adds the hop frequency in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:CHSPacing	Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:DELEte	Deletes the hop/frequency entries in the hopping table/list for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FREQuency	Sets or returns the frequency in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode	Sets or returns the frequency mode in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset	Sets or returns the frequency offset in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime	Sets or returns the "time in hop" in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond	Sets or returns the hops per second for carrier <n>.

**Table 2-10: Hopping impairment commands (cont.)**

<b>Command</b>	<b>Description</b>
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHod	Sets or returns the hopping time method for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:SYMPerhop	Sets or returns the symbols per hop for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MAXFreq	Sets or returns the hop maximum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:MINFreq	Sets or returns the hop minimum frequency for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATTern	Sets or returns the hop frequency pattern for carrier <n>.
RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS	Sets or returns the PRBS type in hopping for carrier <n>.
RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:POLYnomial	Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>.
RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:SRegister	Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmpitude	Sets or returns the relative amplitude in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx	Sets or returns the frequency index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELHopidx	Sets or returns the hop index selection in hopping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol	Sets or returns the start symbol in the hopping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon	Sets or returns the random hopping "Turn On" status for carrier <n>.

## Generic Signal: Power Ramping Commands

Use the following commands to set power ramping commands.

**Table 2-11: Power ramping commands**

<b>Command</b>	<b>Description</b>
RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol	Adds a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:DELSymbol	Deletes a symbol in the power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:FUNCTION	Sets or returns the power ramp function for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:LEVEL	Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>.

Table 2-11: Power ramping commands (cont.)

Command	Description
RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend	Sets or returns the periodic extend in power ramp for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol	Sets or returns the currently selected symbol in power ramping table for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:SYMBOL	Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TIME	Sets or returns the time in power ramping for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNOn	Sets or returns the "Turn On" status of power ramping settings for carrier <n>.

## Generic Signal: I/Q Impairment Commands

Use the following commands to set I/Q impairment parameters for generic signals.

Table 2-12: I/Q impairment commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:IVALue	Sets or returns the I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:QVALue	Sets or returns the Q value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:CARRleakage:TURNOn	Sets or returns the "Turn On" status of Carrier Leakage for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH1Val	Sets or returns the channel 1 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH2Val	Sets or returns the channel 2 value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH3Val	Sets or returns the channel 3 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:CH4Val	Sets or returns the channel 4 value for carrier <n>
RFXPress:GENPurpose:CARRier<n>:IQImpairment:HWSKew:TURNOn	Sets or returns the "Turn On" status of hardware skew for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:IQIMbalance	Sets or returns the IQ imbalance value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQIMbalance:TURNOn	Sets or returns the "Turn On" status of IQ Imbalance for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQSWap:TURNOn	Sets or returns the "Turn On" status of IQ Swap for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist:AMA2k	Sets or returns the AMAM2k value for carrier <n>.

**Table 2-12: I/Q impairment commands (cont.)**

Command	Description
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k	Sets or returns the AMPM2k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon	Sets or returns the "Turn On" status of nonlinear distortion for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:DEGRess	Sets or returns the quadrature error value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:QUADError:TURNon	Sets or returns the "Turn On" status of quadrature error for carrier <n>.

## Generic Signal: Distortion Addition Commands

Use the following commands to set distortion addition parameters for generic signals.

**Table 2-13: Distortion addition commands**

Command	Description
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k	Sets or returns the AMAM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA5k	Sets or returns the AMAM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP3k	Sets or returns the AMPM3k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMP5k	Sets or returns the AMPM5k value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype	Sets or returns the amplifier type settings for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMitlevel	Sets or returns the amplifier type limiting level for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:OPERatingpt	Sets or returns the amplifier type operating point for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon	Sets or returns the "Turn On" status of amplifier distortion settings for carrier <n>.

## Generic Signal: Interference Addition Commands

Use the following commands to set interference addition parameters for generic signals.

Table 2-14: Interference addition commands

Command	Description
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: BANDwidth	Sets or returns the additive noise bandwidth value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: RFWAveform	Sets or returns the RF waveform file name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: EBNValue	Sets or returns the additive noise Eb/No value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: INPUtselect	Sets or returns the of additive noise input mode for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: SNRValue	Sets or returns the additive noise SNR value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise: TURNon	Sets or returns the “Turn On” status of additive noise for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet: FREQoffset	Sets or returns the frequency offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:OFFSet: TURNon	Sets or returns the “Turn On” status of offset for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: SIGFormat	Sets or returns the signal format selected for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: IWAVEform	Sets or returns the I waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: QWAVEform	Sets or returns the Q waveform name (signal addition via software) for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: VIAIntf	Sets or returns the interference method selection for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd: TURNon	Sets or returns the “Turn On” status of signal addition for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: CARRoffset	Sets or returns the sinusoidal interference carrier offset value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: CIVAlue	Sets or returns the sinusoidal interference C/I value for carrier <n>.
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf: TURNon	Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>.

## Generic Signal: Sub-Carrier Modulation Commands

Use the following commands to set sub-carrier modulation parameters for generic signals.

Table 2-15: Sub-carrier modulation commands

Command	Description
<code>RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex</code>	Sets or returns the AM modulation index for sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:CARRfreq</code>	Sets or returns the carrier frequency in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation</code>	Sets or returns the frequency deviation in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:MODUlation</code>	Sets or returns the modulation type in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation</code>	Sets or returns the phase deviation in sub-carrier modulation.
<code>RFXPress:GENPurpose:SUBCarrmod:TURNon</code>	Sets or returns the sub-carrier modulation "Turn On" status.

## Generic Signal: S-Parameter Commands

Use the following commands to set S-Parameter options for generic signals.

Table 2-16: S-Parameter commands

Command	Description
<code>RFXPress:GENPurpose:SPARAmeter:FBWMode</code>	Sets or returns the filter bandwidth mode in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FILE&lt;n&gt;:ENABLE</code>	Sets or returns the status of the S-parameter file <n>.
<code>RFXPress:GENPurpose:SPARAmeter:FILE&lt;n&gt;:NAME</code>	Sets or returns the file name of the S-parameter file <n>.
<code>RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth</code>	Sets or returns the filter bandwidth in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATType</code>	Sets or returns the four-port data type in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout</code>	Sets or returns the differential layout in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:RXMinus</code>	Sets or returns the single ended Rx- selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:RXPLus</code>	Sets or returns the single ended Rx+ selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMinus</code>	Sets or returns the single ended Tx- selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLus</code>	Sets or returns the single ended Tx+ selection in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:INVErt</code>	Sets or returns the Apply Inversion parameter in S-parameter.
<code>RFXPress:GENPurpose:SPARAmeter:MODE</code>	Sets or returns the S-parameter mode.



## Instrument Control

Use the following command for instrument control.

Table 2-17: Instrument control commands

Command	Description
<a href="#">RFXPress:INSTctrl:AWGenerator:CHANnel&lt;n&gt;:WAVName</a>	Sets the waveform to a specified AWG channel.

## Radar: Pulse Train Settings

Use the following commands for pulse train settings.

Table 2-18: Pulse train settings commands

Command	Description
<a href="#">RFXPress:RADAR:PULTrain:ADDElement</a>	Adds a pulse or dead-time to the pulse train table. To add a pulse, use "PULSE". To add a dead-time, use "DEAD TIME".
<a href="#">RFXPress:RADAR:PULTrain:INSElement</a>	Inserts a new pulse or dead-time in the pulse train table.
<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>	Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.
<a href="#">RFXPress:RADAR:PULTrain:DELEte</a>	Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.
<a href="#">RFXPress:RADAR:PULTrain:TYPE?</a>	Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.
<a href="#">RFXPress:RADAR:PULTrain:ANCHor</a>	Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.
<a href="#">RFXPress:RADAR:PULTrain:COUNT?</a>	Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

## Radar: Add Pulse Group

Use the following commands for adding pulse groups.

Table 2-19: Radar add pulse commands

Command	Description
<a href="#">RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNon</a>	Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAR:PULTrain:SELPulse:ADDItion:SELAll</a>	Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

## Radar: Pulse Envelope Group Settings

Use the following commands for pulse envelope settings.

**Table 2-20: Radar pulse envelope commands**

Command	Description
<code>RFXPress:RADAR:PULSe:PENvelope:SHAPE</code>	Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:CUSTomfile</code>	Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:STARTvalue</code>	Sets or returns the pulse envelope start time value for the currently selected pulse group.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:RISE:VALUe</code>	Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:RISE:PERCentage</code>	Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:FALL:VALUe</code>	Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:FALL:PERCentage</code>	Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:TIME:OFFTime</code>	Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:WIDTh:VALUe</code>	Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:WIDTh:POWEr</code>	Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:SAMPlerate</code>	Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<code>RFXPress:RADAR:PULSe:PENvelope:CAROffset</code>	Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.
<code>RFXPress:RADAR:PULSe:PENvelope:BBOFset</code>	Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

Command	Description
<a href="#">RFXPress:RADAr:PULSe:PENVELOpe:RELAmpLitude</a>	Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:PENVELOpe:REPEat</a>	Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

## Radar: Carrier Settings

Use the following commands for carrier settings.

Table 2-21: Radar command

Command	Description
<a href="#">RFXPress:RADAr:CARRier:MAGNitude</a>	Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.
<a href="#">RFXPress:RADAr:CARRier:AMPLitude</a>	Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.
<a href="#">RFXPress:RADAr:CARRier:FREQuency</a>	Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.
<a href="#">RFXPress:RADAr:CARRier:COHErent</a>	Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

## Radar: Antenna Scanning

Use the following commands for antenna scanning.

Table 2-22: Radar antenna scanning commands

Command	Description
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:BEAM:FILE</a>	Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to "User Defined" before using this command.
<a href="#">RFXpress:RADAr:PULSe:CLUTter:OFFSet</a>	Sets or returns the "Turn On" status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:BEAM:TYPE</a>	Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

**Table 2-22: Radar antenna scanning commands (cont.)**

Command	Description
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:BEAM:WIDTH</a>	Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:MRValue</a> <sup>1</sup>	Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:SCANrate</a>	Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.
<a href="#">RFXPress:RADAr:PULSe:ANTEenna:TBEAring</a>	Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

## Radar: Multipath

Use the following commands for multipath settings.

**Table 2-23: Radar multipath commands**

Command	Description
<a href="#">RFXPress:RADAr:PULSe:MULTipath:TURNOn</a>	Sets or returns the “Turn On” status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:MULTipath:ADDPath</a>	Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.
<a href="#">RFXPress:RADAr:PULSe:MULTipath:SELPath</a>	Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.
<a href="#">RFXPress:RADAr:PULSe:MULTipath:DELAY</a>	Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

Table 2-23: Radar multipath commands (cont.)

Command	Description
<a href="#">RFXPress:RADAr:PULSe:MULTipath:AMPLitude</a>	Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
<a href="#">RFXPress:RADAr:PULSe:MULTipath:PHASe</a>	Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.
<a href="#">RFXPress:RADAr:PULSe:MULTipath:DELPath</a>	Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

## Radar: I/Q Impairments

Use the following commands for I/Q impairments settings.

Table 2-24: Radar I/Q impairments commands

Command	Description
<a href="#">RFXPress:RADAr:IQImpairment:IQSWap:TURNOn</a>	Sets or returns the "Turn On" status of IQ Swap.
<a href="#">RFXPress:RADAr:IQImpairment:IQIMbalance:TURNOn</a>	Sets or returns the "Turn On" status of IQ Imbalance.
<a href="#">RFXPress:RADAr:IQImpairment:IQIMbalance:IQIMbalance</a>	Sets or returns the IQ imbalance value.
<a href="#">RFXPress:RADAr:IQImpairment:QUADerror:TURNOn</a>	Sets or returns the "Turn On" status of quadrature error.
<a href="#">RFXPress:RADAr:IQImpairment:QUADerror:DEGRees</a>	Sets or returns the quadrature error degrees value.
<a href="#">RFXPress:RADAr:IQImpairment:CARRleakage:TURNOn</a>	Sets or returns the "Turn On" status of carrier leakage.
<a href="#">RFXPress:RADAr:IQImpairment:CARRleakage:IVALue</a>	Sets or returns the carrier leakage I value.
<a href="#">RFXPress:RADAr:IQImpairment:CARRleakage:QVALue</a>	Sets or returns the carrier leakage Q value.
<a href="#">RFXPress:RADAr:IQImpairment:HWSKew:TURNOn</a>	Sets or returns the "Turn On" status of hardware skew.
<a href="#">RFXPress:RADAr:IQImpairment:HWSKew:CH1Val</a>	Sets or returns the channel 1 hardware skew value.
<a href="#">RFXPress:RADAr:IQImpairment:HWSKew:CH2Val</a>	Sets or returns the channel 2 hardware skew value.
<a href="#">RFXPress:RADAr:IQImpairment:HWSKew:CH3Val</a>	Sets or returns the channel 3 hardware skew value.
<a href="#">RFXPress:RADAr:IQImpairment:HWSKew:CH4Val</a>	Sets or returns the channel 4 hardware skew value.

## Radar: Interference Addition

Use the following commands for interference addition settings.

**Table 2-25: Radar interference addition commands**

Command	Description
RFXPress:RADAR:INTFaddition:NOISe:TURNOn	Sets or returns the “Turn On” status of Interference Addition Noise.
RFXPress:RADAR:INTFaddition:NOISe:SNRValue	Sets or returns the Interference Addition Noise SNR value.
RFXPress:RADAR:INTFaddition:NOISe:BANDwidth	Sets or returns the Interference Addition Noise bandwidth value.
RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn	Sets or returns the signal addition “Turn On” status.
RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat	Sets or returns the signal format selected.
RFXPress:RADAR:INTFaddition:SIGNaladd:VIAlntf	Sets or returns the interference method selection.
RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform	Sets or returns the I waveform file name.
RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform	Sets or returns the Q waveform file name.
RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform	Sets or returns the RF waveform file name.

## Radar: Pulse Clutter

Use the following commands for pulse clutter settings.

**Table 2-26: Radar pulse clutter commands**

Command	Description
RFXpress:RADAR:PULSe:CLUTter:DURation:VALue	Sets or returns the duration of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXpress:RADAR:PULSe:CLUTter:GAUSsian:BW	Sets or returns the Gaussian bandwidth of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the Power spectral density to Gaussian.
RFXpress:RADAR:PULSe:CLUTter:OFFSet	Sets or returns the frequency offset of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXpress:RADAR:PULSe:CLUTter:PSD:VALue	Sets or returns the power spectral density of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAR:PULSe:CLUTter:SCR:VALue	Sets or returns the signal-to-clutter ratio of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXpress:RADAR:PULSe:CLUTter:STIME:VALue	Sets or returns the starting time of clutter of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
RFXPress:RADAR:PULSe:CLUTter:TURNOn	Sets or returns the “Turn On” status of the pulse clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

## Radar: Pulse Impairments

Use the following commands for pulse impairment settings.

**Table 2-27: Radar pulse impairment commands**

Command	Description
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:JITTer:TURNOn</a>	Sets or returns the "Turn On" status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:JITTer:EDGEtype</a>	Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:JITTer:EGDEviation</a>	Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either "Uniform" or "Gaussian" before using this command.
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDThtype</a>	Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:JITTer:WIDEviation</a>	Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom". Set the pulse impairments jitter width type to either "Uniform" or "Gaussian".
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:TURNOn</a>	Sets or returns the "Turn On" status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:DROOp</a>	Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
<a href="#">RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:OVShoot</a>	Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

**Table 2-27: Radar pulse impairment commands (cont.)**

Command	Description
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPValue	Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".
RFXPress:RADAr:PULSe:IMPAirments:AMPDeviation:RIPFrequency	Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

## Radar: Pulse Hopping

Use the following commands for pulse hopping settings.

**Table 2-28: Radar pulse hopping commands**

Command	Description
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:AVOid:ADDHop	Adds a new frequency to the Avoid Frequency List for currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:AVOid:DELHop	Deletes the selected frequency from the Avoid Frequency List for currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:AVOid:OFFSet	Sets or returns the offset of the selected frequency in the Avoid Frequency List for currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:AVOid:SELHop	Sets or returns the index in the Avoid Frequency List table for currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:CHSPacing	Sets or returns the channel spacing in hopping for the currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:PRBS	Sets or returns the PRBS type in the hopping for the currently selected pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:POLYnomial	Sets or returns the polynomial for the user-defined PRBS in hopping for the pulse.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:SRegister	Sets or returns the shift register value for user-defined PRBS in hopping for the pulse.
RFXPress:RADAr:PULSe:HOPPing:DELHop	Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:MAXimum	Sets or returns the maximum pulse frequency for pseudo random hopping.



Table 2-28: Radar pulse hopping commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:HOPPing:HOPFrequency:MINimum	Sets or returns the minimum pulse frequency for pseudo random hopping.
RFXPress:RADAr:PULSe:HOPPing:OFFSet	Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:PATtern	Sets or returns the hopping pattern for the currently selected pulse group.
RFXPress:RADAr:PULSe:HOPPing:HOPTime:PULSecount	Sets or returns the hopping count for the currently selected pulse group.
RFXPress:RADAr:PULSe:HOPPing:RELAmpitude	Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.
RFXPress:RADAr:PULSe:HOPPing:REPEat	Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:SELHop	Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.
RFXPress:RADAr:PULSe:HOPPing:TURNon	Sets or returns the "Turn On" status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

## Radar: Pulse Staggered PRI

Use the following commands for pulse staggered PRI settings.

Table 2-29: Radar pulse staggered PRI commands

Command	Description
RFXPress:RADAr:PULSe:STAGpri:ADDPri	Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command. The number of PRI deviations that can be added depends upon the pulse group's repeat value.
RFXPress:RADAr:PULSe:STAGpri:DELPri	Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to "User Defined" before using this command.

**Table 2-29: Radar pulse staggered PRI commands (cont.)**

<b>Command</b>	<b>Description</b>
<a href="#">RFXPress:RADAr:PULSe:STAGpri:DEVlation</a>	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command.
<a href="#">RFXPress:RADAr:PULSe:STAGpri:REPEat</a>	Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to "User Defined" before using this command.
<a href="#">RFXPress:RADAr:PULSe:STAGpri:SELPri</a>	Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to "User Defined" before using this command.
<a href="#">RFXPress:RADAr:PULSe:STAGpri:SLOPe</a>	Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to "Ramp" before using this command.
<a href="#">RFXPress:RADAr:PULSe:STAGpri:TURNon</a>	Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:STAGpri:TYPE</a>	Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

## Radar: Pulse modulation

Use the following commands for pulse modulation settings.

**Table 2-30: Radar pulse modulation commands**

<b>Command</b>	<b>Description</b>
<a href="#">RFXPress:RADAr:PULSe:MODUlation</a>	Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:CUSTom:FNAME</a>	Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USFM:DURAtion</a>	Sets or returns the duration for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.

Table 2-30: Radar pulse modulation commands (cont.)

Command	Description
RFXPress:RADAr:PULSe:MODUlation:USFM:FRQOffset	Sets or returns the frequency offset for the selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
RFXPress:RADAr:PULSe:MODUlation:BCPBarker:CODE	Sets or returns the barker code in the Biphas Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphas Coded Pulse modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:FRQSweep	Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:LFM:SWPRange	Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:COEFficient	Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:NLFM:SELOrder	Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:INIOffset	Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:PHSOFFset	Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:PLPCodes:STEPs	Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFm:INIStep	Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
RFXPress:RADAr:PULSe:MODUlation:SFm:STEPs	Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.

Table 2-30: Radar pulse modulation commands (cont.)

Command	Description
<a href="#">RFXPress:RADAR:PULSe:MODUlation:SFM:STPSize</a>	Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to step frequency modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:USDCodes:ADDN<sup>1</sup></a>	Adds 'n' user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:USDCodes:DELN<sup>1</sup></a>	Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:USDCodes:DURAtion<sup>1</sup></a>	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:USDCodes:PHASe<sup>1</sup></a>	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep<sup>1</sup></a>	Sets or returns the currently selected step in the User-defined SFM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined SFM before using this command.
<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:PHASe</a>	Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:FRANK:CODElength</a>	Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:NLFM:ADD</a>	Adds 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.
<a href="#">RFXPress:RADAR:PULSe:MODUlation:NLFM:DELN</a>	Deletes 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

Table 2-30: Radar pulse modulation commands (cont.)

Command	Description
<a href="#">RFXPress:RADAr:PULSe:MODUlation:P1COde:CODElength</a>	Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:P2COde:CODElength</a>	Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:P3COde:CODElength</a>	Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:P4COde:CODElength</a>	Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:QPSK:SAME</a>	Sets or returns the status of “Same symbols for all pulses” for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:QPSK:SYMBOLs</a>	Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:UPDN:INVErt</a>	Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:UPDN:UPDOWns</a>	Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USDCodes:AMPLitude</a>	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USFM:ADDN</a>	Adds ‘n’ user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USFM:DELN</a>	Deletes ‘n’ user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

**Table 2-30: Radar pulse modulation commands (cont.)**

<b>Command</b>	<b>Description</b>
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USPM:AMPLitude</a>	Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USPM:DELN</a>	Deletes 'n' user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USPM:DURAtion</a>	Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USPM:PHASe</a>	Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.
<a href="#">RFXPress:RADAr:PULSe:MODUlation:USPM:SELStep</a>	Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

<sup>1</sup> This command has been deprecated; however, it is still supported for backward compatibility.

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# Command Descriptions

## RFXPress (No Query Form)

Launches the RFXpress application.

**Group** Launch

**Syntax** RFXPress

**Examples** RFXPRESS launches the RFXpress application.

## RFXPress:COMPILE (No Query Form)

Compiles to generate waveforms.

**Group** Compile settings

**Syntax** RFXPress:COMPILE

**Examples** RFXPRESS:COMPILE compiles a waveform.

## RFXPress:COMPILE:ADJWrap

Enables and disables wrap-around.

**Group** Compile settings

**Syntax** RFXPress:COMPILE:ADJWrap {<NR1>|OFF|ON}  
RFXPress:COMPILE:ADJWrap?

**Arguments** Boolean

**Returns** Boolean

**Examples**    RFXPRESS:COMPILE:ADJWRAP 1 enables adjust wrap-around.  
RFXPRESS:COMPILE:ADJWRAP? disables the adjust wrap-around status

## RFXPress:COMPile:AOverSamp1

Sets or returns the auto oversampling calculation option.

**Group**        Compile settings

**Syntax**       RFXPress:COMPile:AOverSamp1 {<NR1>|OFF|ON}  
RFXPress:COMPile:AOverSamp1?

**Related Commands**    [RFXPress:COMPile:OVERSamp1](#)

**Arguments**    Boolean

**Returns**        Boolean

**Examples**       RFXPRESS:COMPILE:AOVERSAMPL 1 enables the auto oversampling calculation.  
RFXPRESS:COMPILE:AOVERSAMPL? returns the auto oversampling calculation selection.

## RFXPress:COMPile:AWFLength

Sets or returns the auto waveform length calculation option.

**Group**        Compile settings

**Syntax**       RFXPress:COMPile:AWFLength {<NR1>|OFF|ON}  
RFXPress:COMPile:AWFLength?

**Related Commands**    [RFXPress:COMPile:WLENgth](#)  
[RFXPress:COMPile:WLTYPe](#)

**Arguments**    Boolean



**Returns** Boolean

**Examples** RFXPRESS:COMPILE:AWFLENGTH 1 enables the auto waveform length calculation.

RFXPRESS:COMPILE:AWFLENGTH? returns the auto waveform length calculation selection.

## RFXPress:COMpile:CORRection:CHFour

Sets or returns the option for applying correction on channel 4. The correction can be applied only when the selected plug-in is Generic Signal.

---

**NOTE.** This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

---

**Group** Compile settings

**Syntax** RFXPress:COMpile:CORRection:CHFour {<NR1>|OFF|ON}  
RFXPress:COMpile:CORRection:CHFour?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:COMPILE:CORRECTION:CHFOUR 1 applies correction on channel 4.

RFXPRESS:COMPILE:CORRECTION:CHFOUR? returns the apply correction status on channel 4.

## RFXPress:COMpile:CORRection:CHOne

Sets or returns the option for applying correction on channel 1. The correction can be applied only when the selected plug-in is Generic Signal.

---

**NOTE.** This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

---

**Group** Compile settings

**Syntax** RFXPress:COMPile:CORRection:CHONE {<NR1>|OFF|ON}  
RFXPress:COMPile:CORRection:CHONE?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:COMPILE:CORRECTION:CHONE 1 applies correction on channel 1.  
RFXPRESS:COMPILE:CORRECTION:CHONE? returns the apply correction status on channel 1.

## RFXPress:COMPile:CORRection:CHTHree

Sets or returns the option for applying correction on channel 3. The correction can be applied only when the selected plug-in is Generic Signal.

---

**NOTE.** This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

---

**Group** Compile settings

**Syntax** RFXPress:COMPile:CORRection:CHTHree {<NR1>|OFF|ON}  
RFXPress:COMPile:CORRection:CHTHree?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:COMPILE:CORRECTION:CHTHREE 1 applies correction on channel 3.  
RFXPRESS:COMPILE:CORRECTION:CHTHREE? returns the apply correction status on channel 3.

## RFXPress:COMPile:CORRection:CHTWo

Sets or returns the option for applying correction on channel 2. The correction can be applied only when the selected plug-in is Generic Signal.

---

**NOTE.** This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

---

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPILE:CORRECTION:CHTwo {<NR1> OFF ON} RFXPress:COMPILE:CORRECTION:CHTwo?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:COMPILE:CORRECTION:CHTwo 1 applies correction on channel 2. RFXPRESS:COMPILE:CORRECTION:CHTwo? returns the apply correction status on channel 2.

## RFXPress:COMPILE:CORRECTION:FNAME

Sets or returns the correction file name. The correction file name can be set only when the selected plug-in is Generic Signal.

---

**NOTE.** This command is applicable only when RFXpress is running on an arbitrary waveform generator (AWG).

---

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPILE:CORRECTION:FNAME RFXPress:COMPILE:CORRECTION:FNAME?
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:COMPILE:CORRECTION:FNAME "E:\Test.rfc" sets the correction file name to "E:\Test.rfc". RFXPRESS:COMPILE:CORRECTION:FNAME? returns the correction file name.

## RFXPress:COMPile:CPASend

Sets the compile and send option. When set to true, the command compiles and send the waveforms to AWG. When set to false, the command only compiles the waveform.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:CPASend {<NR1> OFF ON} RFXPress:COMPile:CPASend?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:COMPILE:CPASEND 1 compiles and sends the waveform to the AWG. RFXPRESS:COMPILE:CPASEND? returns the compile and send option.

## RFXPress:COMPile:ICHannel

Sets or returns the I channel (the number of channels depends on the instrument). This parameter can be set only when the signal format mode is IQ.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:ICHannel RFXPress:COMPile:ICHannel?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a>
<b>Arguments</b>	CHOne, CHTwo, CHTHree, CHFOur
<b>Returns</b>	CHOne, CHTwo, CHTHree, CHFOur
<b>Examples</b>	RFXPRESS:COMPILE:ICHANNEL CHTwo sets the I channel to Channel 2. RFXPRESS:COMPILE:ICHANNEL? returns the I channel.

## RFXPress:COMPile:IINVert

Sets or returns the I Invert status.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:IINVert {<NR1> OFF ON} RFXPress:COMPile:IINVert?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:COMPILE:IINVERT 1 enables I Invert. RFXPRESS:COMPILE:IINVERT? returns the I Invert status.

## RFXPress:COMPile:IQNormfact

Sets or returns the normalization/division factor in the compile settings for IQ

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:IQNormfact RFXPress:COMPile:IQNormfact?
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:COMPILE:IQNORMFACT 1.5 sets the IQ Normalization factor to 1.5. RFXPRESS:COMPILE:IQNORMFACT? returns the normalization or division factor.

## RFXPress:COMPile:IWFName

Sets or returns the I waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:IWFName RFXPress:COMPile:IWFName?
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:COMPILE:IWFNAME "waveform_I" RFXPRESS:COMPILE:IWFNAME?

## RFXPress:COMPile:NORMmode

Sets or returns the normalization mode in compile settings.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:NORMmode RFXPress:COMPile:NORMmode?
<b>Arguments</b>	AUTOnorm, MANuaInorm
<b>Returns</b>	AUTOnorm, MANuaInorm
<b>Examples</b>	RFXPRESS:COMPILE:NORMMODE AUTOnorm sets the normalization mode to Auto. RFXPRESS:COMPILE:NORMMODE? returns the normalization mode.

## RFXPress:COMPile:OVERsAMPL

Sets or returns the oversampling. This parameter can be set only when automatic oversampling calculation is set to "Off".

<b>Group</b>	Compile settings
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**Syntax** RFXPress:COMPILE:OVERSAMPL  
RFXPress:COMPILE:OVERSAMPL?

**Related Commands** [RFXPress:COMPILE:AOVERSAMPL](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:COMPILE:OVERSAMPL 10 sets the oversampling to 10.  
RFXPRESS:COMPILE:OVERSAMPL? returns the oversampling.

## RFXPress:COMPILE:QCHANNEL

Sets or returns the Q channel (the number of channels depends on the instrument).

**Group** Compile settings

**Syntax** RFXPress:COMPILE:QCHANNEL  
RFXPress:COMPILE:QCHANNEL?

**Arguments** CHONE, CHTwo, CHTHree, CHFour

**Returns** CHONE, CHTwo, CHTHree, CHFour

**Examples** RFXPRESS:COMPILE:QCHANNEL CHTwo sets the Q channel to Channel 2.  
RFXPRESS:COMPILE:QCHANNEL? returns the Q channel.

## RFXPress:COMPILE:QINVERT

Sets or returns Q Invert.

**Group** Compile settings

**Syntax** RFXPress:COMPILE:QINVERT {<NR1>|OFF|ON}  
RFXPress:COMPILE:QINVERT?

<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:COMPILE:QINVERT 1 sets Q Invert. RFXPRESS:COMPILE:QINVERT? returns Q Invert.

## RFXPress:COMPile:QWFMname

Sets or returns the Q waveform name in the compile settings when the signal format is IF/RF or IQ. But the waveform name is applied during compilation only when the signal format is IQ. Sets or returns the Q waveform name in compile settings.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:QWFMname RFXPress:COMPile:QWFMname?
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:COMPILE:QWFMNAME "waveform_Q" sets the Q waveform name to Waveform_Q. RFXPRESS:COMPILE:QWFMNAME? sets the Q waveform name.

## RFXPress:COMPile:RADAr:ADJUsT

Sets or returns the adjusted pulse time or frequency parameters. These values must be adjusted to meet the AWG specifications. This command is applicable only when the selected plug-in is Radar signal.

<b>Group</b>	Compile settings
<b>Syntax</b>	RFXPress:COMPile:RADAr:ADJUsT RFXPress:COMPile:RADAr:ADJUsT?



<b>Arguments</b>	Time, Frequency
<b>Returns</b>	Time, Frequency
<b>Examples</b>	<p>RFXPRESS:COMPILE:RADAR:ADJUST TIME sets the adjustment parameter to Time.</p> <p>RFXPRESS:COMPILE:RADAR:ADJUST? returns the selected adjustment pulse parameter.</p>

## RFXPress:COMpile:RFCHannel

Sets or returns the RF channel. This parameter can be set only when the signal format mode is IF/RF. The number of channels depends on the instrument.

<b>Group</b>	Compile settings
<b>Syntax</b>	<p>RFXPress:COMpile:RFCHannel</p> <p>RFXPress:COMpile:RFCHannel?</p>
<b>Arguments</b>	CH0ne, CHTwo, CHTHree, CHFOur
<b>Returns</b>	CH0ne, CHTwo, CHTHree, CHFOur
<b>Examples</b>	<p>RFXPRESS:COMPILE:RFCHANNEL CHTwo set the RF channel to Channel 2.</p> <p>RFXPRESS:COMPILE:RFCHANNEL? returns the RF channel.</p>

## RFXPress:COMpile:RFNormfact

Sets or returns the normalization/division factor in the compile settings for IF/RF signals.

<b>Group</b>	Compile settings
<b>Syntax</b>	<p>RFXPress:COMpile:RFNormfact</p> <p>RFXPress:COMpile:RFNormfact?</p>
<b>Arguments</b>	Real

**Returns** Real

**Examples** RFXPRESS:COMPILE:RFNORMFACT 1.5 sets the IF/Rf normalization factor to 1.5.

RFXPRESS:COMPILE:RFNORMFACT? returns the IF/Rf normalization factor.

## RFXPress:COMPile:RFWFmname

Sets or returns the IF/Rf waveform name in the compile settings when the signal format is IF/Rf or IQ. But the waveform name is applied during compilation only when the signal format is IF/Rf.

**Group** Compile settings

**Syntax** RFXPress:COMPile:RFWFmname  
RFXPress:COMPile:RFWFmname?

**Arguments** String

**Returns** String

**Examples** RFXPRESS:COMPILE:RFWFNAME "waveform1" sets the IF/Rf waveform name to Waveform1.

RFXPRESS:COMPILE:RFWFNAME? returns the IF/Rf waveform name.

## RFXPress:COMPile:SIGFormat

Sets or returns the signal format in RFXpress.

**Group** Compile settings

**Syntax** RFXPress:COMPile:SIGFormat  
RFXPress:COMPile:SIGFormat?

**Arguments** IQ, IFRF

**Returns** IQ, IFRF

**Examples** RFXPRESS:COMPILE:SIGFORMAT IFRF sets the signal format to IF/RF.  
RFXPRESS:COMPILE:SIGFORMAT? returns the signal format.

## RFXPress:COMpile:WLENgth

Sets or returns the waveform length. This parameter can be set only when the automatic waveform length calculation is set to “Off”. When the waveform type is ‘TIME’, specify the waveform length in seconds.

**Group** Compile settings

**Syntax** RFXPress:COMpile:WLENgth  
RFXPress:COMpile:WLENgth?

**Related Commands** [RFXPress:COMpile:WLTyPe](#)  
[RFXPress:COMpile:AWFLength](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:COMPILE:WLENGTH 20000 sets the waveform length to 20000.  
RFXPRESS:COMPILE:WLENGTH? returns the waveform length.

## RFXPress:COMpile:WLTyPe

Sets or returns the waveform length type. This parameter can be set only when the automatic waveform length calculation is set to “Off”.

**Group** Compile settings

**Syntax** RFXPress:COMpile:WLTyPe  
RFXPress:COMpile:WLTyPe?

**Related Commands** [RFXPress:COMpile:WLENgth](#)  
[RFXPress:COMpile:AWFLength](#)

<b>Arguments</b>	SAMPles, SYMBols, TIME
<b>Returns</b>	SAMPles, SYMBols, TIME
<b>Examples</b>	RFXPRESS:COMPILE:WLTYPE SAMPles sets the waveform length type as samples. RFXPRESS:COMPILE:WLTYPE? returns the waveform length type.

## RFXPress:GENPurpose:ADDCarrier (No Query Form)

Adds 'n' carriers in the carrier table.

<b>Group</b>	Generic signal: Multi-carrier settings
<b>Syntax</b>	RFXPress:GENPurpose:ADDCarrier
<b>Arguments</b>	Integer
<b>Examples</b>	RFXPRESS:GENPURPOSE:ADDCARRIER 2 adds two carriers.

## RFXPress:GENPurpose:ANCHor

Sets or returns the carrier as anchor carrier in the multi-carrier table. This command is applicable only in multi-carrier mode.

<b>Group</b>	Generic signal: Multi-carrier settings
<b>Syntax</b>	RFXPress:GENPurpose:ANCHor RFXPress:GENPurpose:ANCHor?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARType</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean

**Examples**    `RFXPRESS:GENPURPOSE:ANCHOR 3` sets carrier 3 as the anchor carrier.  
`RFXPRESS:GENPURPOSE:ANCHOR?` returns the anchor carrier.

## RFXPress:GENPurpose:CARRIER<n>:ALPHA

Sets or returns the Alpha/(B\*T) for carrier <n>, where <n> is the carrier number.

**Group**    Generic signal: Setup

**Syntax**    `RFXPress:GENPurpose:CARRIER<n>:ALPHA`  
`RFXPress:GENPurpose:CARRIER<n>:ALPHA?`

**Arguments**    Real

**Returns**    Real

**Examples**    `RFXPRESS:GENPURPOSE:CARRIER1:ALPHA 0.20` sets the Alpha/(B\*T) for carrier 1 to 0.20.  
`RFXPress:GENPurpose:CARRIER1:ALPHA?` returns the Alpha/(B\*T) for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE

Sets or returns the amplitude of carrier <n>, where <n> is the carrier number. This parameter input value is dBm when the signal format is IF/RF and is  $V_{RMS}$  when the signal format is IQ.

**Group**    Generic signal: Setup

**Syntax**    `RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE`  
`RFXPress:GENPurpose:CARRIER<n>:AMPLITUDE?`

**Arguments**    Real

**Returns**    Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE 3.1 sets the amplitude of carrier 1 to 3.1 dBm.

RFXPRESS:GENPURPOSE:CARRIER1:AMPLITUDE? returns the amplitude of carrier 1.

## RFXPress:GENPurpose:CARRier<n>:BBOffset

Sets or returns the baseband offset for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the signal format is IQ.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:BBOffset  
RFXPress:GENPurpose:CARRier<n>:BBOffset?

**Related Commands** [RFXPress:COMPILE:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET 1e6 sets the baseband offset for carrier 1 to 1 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:BBOFFSET? returns the baseband offset for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:BSEData

Sets or returns the base data type of carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:BSEData  
RFXPress:GENPurpose:CARRier<n>:BSEData?

**Arguments** ALLZero, ALLOne, PRBS, PATTERN, FILE

**Returns** ALLZero, ALLOne, PRBS, PATTErn, FILE

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA PRBS sets the base data of carrier 1 to PRBS.

RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA? returns the base data type for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:BMEData:FILE

Sets or returns the user-defined file for File Base data type of carrier <n>, where <n> is the carrier number. The file path must be given and should be present in the host which has RFXpress loaded.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:BMEData:FILE  
RFXPress:GENPurpose:CARRIER<n>:BMEData:FILE?

**Arguments** String

**Returns** String

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA:FILE "C:\Userfile.txt" sets the user defined file as "C:\Userfile.txt" for carrier 1.

RFXPRESS:GENPURPOSE:CARRIER1:BMEDATA:FILE? returns the base data file for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:BMEData:PATTERn

Sets or returns the Pattern Data for Pattern Base data type of carrier <n>, where <n> is the carrier number. Only binary patterns are accepted.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:BMEData:PATTERn  
RFXPress:GENPurpose:CARRIER<n>:BMEData:PATTERn?

<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN "101010101" sets the pattern data as "101010101".</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PATTERN? returns the base data binary pattern for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS

Sets or returns the PRBS type of carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:BSEData:PRBS</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:BSEData:PRBS?</p>
<b>Arguments</b>	<p>String</p> <p>The string values are:</p> <p>7, 9, 15, 16, 21, 23, User-defined</p>
<b>Returns</b>	<p>String</p> <p>The string values returned are:</p> <p>7, 9, 15, 16, 21, 23, User-defined</p>
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS "User-defined" sets the PRBS type of carrier 1 to "User-defined".</p> <p>RFXPRESS:GENPURPOSE:CARRIER1BSEDATA:PRBS? returns the PRBS type for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:BSEData:PRBS:USRDefined:IPOLynomial

Sets or returns the user-defined PRBS initial polynomial expression of carrier <n>, where <n> is the carrier number.



<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined: IPOLynomial RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined: IPOLynomial?
<b>Arguments</b>	String  Valid polynomial expressions are accepted.
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X20+X15+1" sets the initial polynomial for the user-defined PRBS to "X20+x15+1".  RFXPRESS:GENPURPOSE:CARRIER1:BSEDATA:PRBS:USRDEFINED:IPOLYNOMIAL? returns the initial polynomial expression of user-defined PRBS type for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial

Sets or returns the user-defined PRBS polynomial expression of carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined: POLYnomial RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined: POLYnomial?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:BSEData:PRBS</a>
<b>Arguments</b>	String  Valid polynomial expressions are accepted.
<b>Returns</b>	String

- Examples**    `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:POLYNOMIAL "X15+X14+1"` sets the polynomial for the user-defined PRBS to "X15+x14+1".
- `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:POLYNOMIAL?` returns the polynomial expression of user-defined PRBS type for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister

Sets or returns the user-defined PRBS Shift Register pattern of carrier <n>, where <n> is the carrier number. The length of the pattern depends upon the polynomial expression.

**Group**    Generic signal: Setup

**Syntax**    `RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister`  
`RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:SREGister?`

**Related Commands**    [RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS:USRDefined:POLYnomial](#)  
[RFXPress:GENPurpose:CARRier<n>:BSEData:PRBS](#)

**Arguments**    string  
 Only binary patterns are accepted.

**Returns**    string

- Examples**    `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:SREGISTER "101010101010101"` sets the shift register bit pattern to "1010101010101" for the polynomial expression of "X15+x14+1".
- `RFXPRESS:GENPURPOSE:CARRIER1:BMSEDATA:PRBS:USRDEFINED:SREGISTER?` returns the Shift register binary pattern user-defined PRBS type for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:CHBRipple

Sets or returns the Chebyshev ripple for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Chebyshev Ripple.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:CHBRipple RFXPress:GENPurpose:CARRIER<n>:CHBRipple?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:WINDOW</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE 14.3 sets the Chebyshev ripple for carrier 1 to 14.3.  RFXPRESS:GENPURPOSE:CARRIER1:CHBRIPPLE? returns the Chebyshev ripple for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:CODING

Sets or returns the coding for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:CODING RFXPress:GENPurpose:CARRIER<n>:CODING?
<b>Arguments</b>	String  The string values are:  None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential
<b>Returns</b>	String  The string values returned are:  None, Gray, Differential, Gray differential, NADC, TFTS, MSAT differential

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:CODING "Gray" sets carrier 1 coding to Gray.  
RFXPRESS:GENPURPOSE:CARRIER1:CODING? returns carrier 1 coding.

## RFXPress:GENPurpose:CARRier<n>:CONLen

Sets or returns the convolution length for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:CONLen  
RFXPress:GENPurpose:CARRier<n>:CONLen?

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:CONLEN 11 sets the convolution length for carrier 1 to 11 symbols.  
RFXPRESS:GENPURPOSE:CARRIER1:CONLEN? returns the convolution length for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k  
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMA3k?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNOn](#)  
[RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K 0.02` sets the AMAM3k for carrier 1 to 0.02 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA3K?` returns the AMAM3k for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k**

Sets or returns the AMAM5k value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k`  
`RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMA5k?`

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMPLtype](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K 0.02` sets the AMAM5k for carrier 1 to 0.02 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMA5K?` returns the AMAM5k for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:AMP3k**

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP3k  
RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP3k?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K  
0.02 sets the AMPM3k for carrier 1 to 0.02 degrees.  
RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP3K?  
returns the AMPM3k for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k

Sets or returns the AMPM5k value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k  
RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMP5k?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:AMPLtype](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K  
0.02 sets the AMPM5k for carrier 1 to 0.02 degrees.  
RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMP5K?  
returns the AMPM5k for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:AMPLtype

Sets or returns the amplifier type settings for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:  
AMPLtype  
RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:  
AMPLtype?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:TURNon](#)

**Arguments** String  
The string values are:  
Non-linear  
Hard Limiting  
Soft Limiting

**Returns** String  
The string values returned are:  
Non-linear  
Hard Limiting  
Soft Limiting

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE  
"Hard Limiting" sets the amplifier type for the carrier 1 to Hard Limiting.  
RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:AMPLTYPE?  
returns the amplifier type for the carrier 1.

## RFXPress:GENPurpose:CARRier<n>:DISTaddition:AMPLifier:LIMItlevel

Sets or returns the amplifier type limiting level for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Distortion addition

<b>Syntax</b>	<pre>RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier: LIMITlevel RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier: LIMITlevel?</pre>
<b>Related Commands</b>	<pre>RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier:TURNon RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier:AMPLtype</pre>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:LIMITINGLEVEL 0.6 sets the limiting level for carrier 1 to 0.6.  RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:LIMITINGLEVEL? returns the limiting level for carrier 1.</pre>

## RFXPress:GENPurpose:CARRier<n>:DISTAddition:AMPLifier:OPERatingpt

Sets or returns the amplifier type operating point for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Distortion addition
<b>Syntax</b>	<pre>RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier: OPERatingpt RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier: OPERatingpt?</pre>
<b>Related Commands</b>	<pre>RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier:TURNon RFXPress:GENPurpose:CARRier&lt;n&gt;:DISTAddition:AMPLifier:AMPLtype</pre>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<pre>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT 0.09 sets the operating point for carrier 1 to 0.09.</pre>



`RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:OPERATINGPT?`  
returns the operating point for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:DISTAddition:AMPLifier:TURNOn**

Sets or returns the “Turn On” status of amplifier distortion settings for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Distortion addition
<b>Syntax</b>	<code>RFXPress:GENPurpose:CARRIER&lt;n&gt;:DISTAddition:AMPLifier:TURNOn</code> {<NR1> OFF ON} <code>RFXPress:GENPurpose:CARRIER&lt;n&gt;:DISTAddition:AMPLifier:</code> <code>TURNOn?</code>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<code>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON 1</code> sets the amplifier distortion status for carrier 1 to On.  <code>RFXPRESS:GENPURPOSE:CARRIER1:DISTADDITION:AMPLIFIER:TURNON?</code> returns the amplifier distortion status for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:FILTER**

Sets or returns the filter for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	<code>RFXPress:GENPurpose:CARRIER&lt;n&gt;:FILTER</code> <code>RFXPress:GENPurpose:CARRIER&lt;n&gt;:FILTER?</code>
<b>Arguments</b>	String The string values are:  No Filter  Rectangular

Raised Cosine  
Root Raised Cosine  
Gaussian(Dirac Delta)  
Gaussian(rectangular)  
Triangular  
Edge  
Half Sine  
User-Defined

**Returns** String  
The string values returned are:  
No Filter  
Rectangular  
Raised Cosine  
Root Raised Cosine  
Gaussian(Dirac Delta)  
Gaussian(rectangular)  
Triangular  
Edge  
Half Sine  
User-Defined

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FILTER "Raised Cosine" sets the carrier 1 filter to Raised Cosine.  
RFXPRESS:GENPURPOSE:CARRIER1:FILTER? returns the carrier 1 filter.

## RFXPress:GENPurpose:CARRier<n>:FREQuency

Sets the carrier frequency of carrier <n>, where <n> is the carrier number. This is applicable only if the signal format is IF/RF.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:FREQUENCY  
RFXPress:GENPurpose:CARRIER<n>:FREQUENCY?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY 20e6 sets the frequency of carrier 2 to 20 MHz.

RFXPRESS:GENPURPOSE:CARRIER2:FREQUENCY? returns the frequency of carrier 2.

## RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg

Sets or returns the file sample data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg  
RFXPress:GENPurpose:CARRIER<n>:FSAMPLE:DATORg?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

**Arguments** IQ, QI, IONLY, QONLY

**Returns** IQ, QI, IONLY, QONLY

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORg IQ sets file sample data organization for carrier 1 to I/Q.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:DATORg? returns the file sample data organization for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME

Sets or returns the File Samples file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME  
RFXPress:GENPurpose:CARRier<n>:FSAMple:FNAME?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODULATION](#)

**Arguments** String

**Returns** String

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME "E:\Test.txt" sets the file sample file name for carrier 1 to "E:\Test.txt".

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FNAME? returns the file sample for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT

Sets or returns the file sample format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT  
RFXPress:GENPurpose:CARRier<n>:FSAMple:FORMAT?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODULATION](#)

**Arguments** ASCII, FLOAT, DOUBLE

**Returns** ASCII, FLOAT, DOUBLE

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT DOUBLE sets the file sample format for carrier 1 to Double.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:FORMAT? returns the file sample format for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE

Sets or returns the file sample mode for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE  
RFXPress:GENPurpose:CARRIER<n>:FSAMple:MODE?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MODUlation](#)

**Arguments** INTERNAL, EXTERNAL

**Returns** INTERNAL, EXTERNAL

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE EXTERNAL sets the file sample mode for carrier 1 to External.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:MODE? returns the file sample mode for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate

Sets or returns the file sampling rate for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Samples.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate  
RFXPress:GENPurpose:CARRIER<n>:FSAMple:SAMRate?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE 16 sets the file sampling rate for carrier 1 to 16 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:FSAMPLE:SAMRATE? returns the file sampling rate for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg

Sets or returns the file symbol data organization for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg  
RFXPress:GENPurpose:CARRier<n>:FSYMble:DATOrg?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** IQ, QI, IONLY, QONLY

**Returns** IQ, QI, IONLY, QONLY

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG QI sets the file symbol data organization for carrier 1 to Q/I.

RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:DATORG? returns the file symbol data organization for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:FSYMble:FNAME

Sets or returns the file symbol file name for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:FSYMBle:FNAME RFXPress:GENPurpose:CARRier<n>:FSYMBle:FNAME?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:MODUlation</a>
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME "E:\Test1.txt" sets the file symbol file name for carrier 1 to "E:\Test1.txt".  RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FNAME? returns the file symbol file name for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:FSYMBle:FORMat

Sets or returns the file symbol format for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to File Symbols.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:FSYMBle:FORMat RFXPress:GENPurpose:CARRier<n>:FSYMBle:FORMat?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:MODUlation</a>
<b>Arguments</b>	ASCIi, FLOAt, DOUBle
<b>Returns</b>	ASCIi, FLOAt, DOUBle
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT ASCIi sets the file symbol format for carrier 1 to ascii.  RFXPRESS:GENPURPOSE:CARRIER1:FSYMBLE:FORMAT? returns the file symbol format for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:ADD (No Query Form)

Adds the hop frequency in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is Pseudo-Random, Range.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:ADD

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:ADD adds a hop entry in hopping table/list for the carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING

Sets or returns the channel spacing in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING  
RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:CHSPACING?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATTERN](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING 40e6 sets the hop channel spacing in hopping for carrier 1 to 40 MHz.



RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:CHSPACING? returns the channel spacing in hopping for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:DELETE (No Query Form)

Deletes the hop/frequency entries in the hopping table/list for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This command cannot be used when the hop pattern selected is “Pseudo-Random, Range”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:DELETE

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

**Arguments** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:DELETE 5 deletes the hop entry 5 in hopping table/list for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY

Sets or returns the frequency in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is Absolute. This parameter is not accessible when the hop pattern is set as “Pseudo-Random, Range”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY  
RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FREQUENCY?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNON](#)

[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:FRQMODE](#)

[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATTERN](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY 12e6 sets the frequency in the hopping table for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FREQUENCY? returns the frequency in the hopping table for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode

Sets or returns the frequency mode in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The frequency mode is dependent on the hop pattern and the signal format mode. The frequency mode cannot be set to Offset for “Pseudo-Random, List” and “Pseudo-Random, Avoid List” when the signal format is IF/RF. The frequency mode cannot be set to Absolute for “Pseudo-Random, List” and “Pseudo-Random, Avoid List” when the signal format is IQ This command cannot be used when the hop pattern selected is “Pseudo-Random, Range”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode  
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:FRQMode?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)  
[RFXPress:COMPile:SIGFormat](#)

**Arguments** ABSolute, OFFSet

**Returns** ABSolute, OFFSet

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE ABSOLUTE sets the frequency mode in hopping for carrier 1 to Absolute.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQMODE? returns the frequency mode in hopping for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset

Sets or returns the frequency offset in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop frequency mode is offset. This parameter is not accessible when the hop pattern is set as “Pseudo-Random, Range”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset  
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQOffset?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:FRQMode](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET 12e6  
sets the frequency offset in the hopping table for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:FRQOFFSET? returns the frequency offset in the hopping table for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime

Sets or returns the “time in hop” in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table” and hop time method is set as “Time in hop, variable”.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime  
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime?

**Related Commands**    [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHOD](#)

**Arguments**    Real

**Returns**    Real

**Examples**    `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME 23` sets the “time in hop” in the hopping table for carrier 1 to 23 ms.  
`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME?` returns the “time in hop” in the hopping table for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond**

Sets or returns the hops per second for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "hops per second, fixed".

**Group**    Generic signal: Hopping

**Syntax**    `RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond`  
`RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:HOPPPersecond?`

**Related Commands**    [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHOD](#)

**Arguments**    Real

**Returns**    Real

**Examples**    `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND 2000` sets the hops per second for carrier 1 to 2000.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:HOPPERSECOND?  
returns the hops per second for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:METHOD

Sets or returns the hopping time method for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. The hop time method is dependent on the hop pattern selected. Only "Symbols per hop, fixed" and "Hops per second, fixed" are valid when the hop pattern set is other than "Custom Table".

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:  
METHOD  
RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:HOPTime:  
METHOD?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)

**Arguments** String  
The string values are:  
Symbols per hop, fixed  
Hops per second, fixed  
Symbol Index, each hop  
Time in hop, variable

**Returns** String  
The string values returned are:  
Symbols per hop, fixed  
Hops per second, fixed  
Symbol Index, each hop  
Time in hop, variable

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD`  
                   "Symbols per hop, fixed" sets the hop time method for carrier 1 to  
                   "Symbols per hop, fixed".

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:METHOD?`  
                   returns the hop time method for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:SYMPerhop**

Sets or returns the symbols per hop for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop time method set is "Symbols per hop, fixed".

**Group**        Generic signal: Hopping

**Syntax**       `RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:`  
                   `SYMPerhop`  
                   `RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:`  
                   `SYMPerhop?`

**Related Commands**     [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)  
                               [RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:HOPTime:METHOD](#)

**Arguments**     Integer

**Returns**        Integer

**Examples**       `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPerHOP`  
                       200 sets the symbols per hop for carrier 1 to 200.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:HOPTIME:SYMPerHOP?`  
                       returns the symbols per hop for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MAXFreq**

Sets or returns the hop maximum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is "Pseudo-Random, Range" or "Pseudo-Random, Avoid List".

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MAXFreq RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MAXFreq?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:HOPping:TURNOn</a> <a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:HOPping:HOPFreq:PATtern</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ 100e6 sets the hop maximum frequency for carrier 1 to 100 MHz.  RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MAXFREQ? returns the hop maximum frequency for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MINFreq

Sets or returns the hop minimum frequency for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MINFreq RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:MINFreq?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:HOPping:TURNOn</a> <a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:HOPping:HOPFreq:PATtern</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ 20e6` sets the hop minimum frequency for carrier 1 to 20 MHz.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:MINFREQ?` returns the hop minimum frequency for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern**

Sets or returns the hop frequency pattern for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>.

**Group**     Generic signal: Hopping

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern`  
`RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern?`

**Related Commands**     [RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:PATtern](#)

**Arguments**     String

The string values are:

- Custom Table
- Pseudo-Random, Range
- Pseudo-Random, List
- Pseudo-Random, Avoid List

**Returns**     String

The string values returned are:

- Custom Table
- Pseudo-Random, Range
- Pseudo-Random, List
- Pseudo-Random, Avoid List

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN "Custom Table"` sets the hop frequency pattern for carrier 1 to "Custom Table".



RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PATTERN? returns the hop frequency pattern for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS

Sets or returns the PRBS type in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS  
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)

**Arguments** String  
The string values are:

- 7
- 9
- 15
- 16
- 20
- 21
- 23
- User-defined

**Returns** String  
The string values returned are:

- 7
- 9
- 15
- 16

20  
 21  
 23  
 User-defined

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS "7" sets the PRBS type in the hopping for carrier 1 to PRBS 7.  
 RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS? returns the PRBS type in hopping for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial

Sets or returns the polynomial for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You can set this parameter only when the PRBS type is User Defined.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial  
 RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:POLYnomial?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)  
[RFXPress:RADAR:PULSe:HOPping:HOPFrequency:PRBS](#)

**Arguments** string

**Returns** string

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL "X15+X14+1" sets the polynomial for user-defined PRBS in hopping for carrier 1 to "X15+X14+1".

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:POLYNOMIAL? returns the polynomial for user-defined PRBS in hopping for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister

Sets or returns the shift register value for user-defined PRBS in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. You cannot set this parameter when the hop pattern selected is Custom Table. You can set this parameter only when the PRBS type is User Defined.

**Group** Generic signal: Hopping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister  
RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PRBS:USRDefined:SREGister?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPping:TURNon](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:PATtern](#)  
[RFXPress:RADAr:PULSe:HOPping:HOPFrequency:PRBS](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER 10 sets the shift register value for user-defined PRBS in hopping for carrier 1 to 10.

RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:PRBS:USRDEFINED:SREGISTER? returns the shift register value for user-defined PRBS in hopping for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:HOPping:HOPFreq:RELAmplitude

Sets or returns the relative amplitude in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping

is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table”.

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:RELAmplitude?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:TURNon</a> <a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:HOPFreq:PATtern</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE -12 sets the relative amplitude in the hopping table for carrier 1 to -12 dB.  RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:RELAMPLITUDE? returns the relative amplitude in the hopping table for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx

Sets or returns the frequency index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is other than “Custom Table”.

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:SELFreqidx?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:TURNon</a> <a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:HOPFreq:PATtern</a>
<b>Arguments</b>	Integer

**Returns** Integer

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX 3` sets the frequency index selection in hopping for carrier 1 to 3.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELFREQIDX?` returns the frequency index selection in hopping for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx**

Sets or returns the hop index selection in hopping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table”.

**Group** Generic signal: Hopping

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx`  
`RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:SELHopIdx?`

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:HOPPING:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:PATtern](#)

**Arguments** Integer

**Returns** Integer

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX 5` sets the hop index selection in hopping for carrier 1 to 5.

`RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:SELHOPIDX?` returns the hop index selection in hopping for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:HOPPING:HOPFREQ:STSYmbol**

Sets or returns the start symbol in the hopping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when hopping is enabled for carrier <n>. This parameter can be accessed only when the hop pattern set is “Custom Table” and hop time method is set as “Symbol Index, each hop”.

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol RFXPress:GENPurpose:CARRier<n>:HOPPing:HOPFreq:STSYmbol?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:TURNOn</a> <a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:HOPFreq:PATtern</a> <a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:HOPPing:HOPFreq:HOPTime:METHod</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL 101 sets the start symbol in the hopping table for carrier 1 to 101.  RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:HOPFREQ:STSYMBOL? returns the start symbol in the hopping table for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn

Sets or returns the random hopping “Turn On” status for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Hopping
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:HOPPing:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON 1 sets the random hopping status for carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1:HOPPING:TURNON? returns the random hopping status for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:BANDwidth

Sets or returns the additive noise bandwidth value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
BANDwidth  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
BANDwidth?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH  
1 sets the additive noise bandwidth value for carrier 1 to 1 Hz.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:BANDWIDTH?  
returns the additive noise bandwidth value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:EBNValue

Sets or returns the additive noise Eb/No value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
EBNValue  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
EBNValue?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNOn](#)  
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE  
1 sets the additive noise Eb/No value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:EBNVALUE?  
returns the additive noise Eb/No value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:INPUtselect

Sets or returns the of additive noise input mode for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
INPUTselect  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:  
INPUTselect?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:TURNon](#)

**Arguments** SNR, EBNO

**Returns** SNR, EBNO

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT  
SNR sets the status of carrier 1 Additive Noise input select to SNR.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:INPUTSELECT?  
returns the status of Additive Noise input select for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:ADDItnoise:SNRValue

Sets or returns the additive noise SNR value for carrier <n>, where <n> is the carrier number.



<b>Group</b>	Generic signal: Interference addition
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:SNRValue RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:SNRValue?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:INTFaddition:ADDItnoise:TURNOn</a> <a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:INTFaddition:ADDItnoise:INPUtselect</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE 1 sets the additive noise SNR value for carrier 1 to 1 dB.  RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:SNRVALUE? returns the additive noise SNR value for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn

Sets or returns the “Turn On” status of additive noise for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Interference addition
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:INTFaddition:ADDItnoise:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON 1 sets the status of additive noise for carrier 1 to “On”.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:ADDITNOISE:TURNON?  
 returns the status of additive noise for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:FREQoffset

Sets or returns the frequency offset value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:  
 FREQoffset  
 RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:  
 FREQoffset?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET  
 1 sets the frequency offset value for carrier 1 to 1 Hz.  
 RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:FREQOFFSET?  
 returns the frequency offset value for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:TURNOn

Sets or returns the “Turn On” status of offset for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:TURNOn  
 {<NR1>|OFF|ON}  
 RFXPress:GENPurpose:CARRIER<n>:INTFaddition:OFFSet:TURNOn?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON 1 sets the status of offset for carrier 1 to “On”.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:OFFSET:TURNON?  
returns the status of offset for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:IWAVEform

Sets or returns the I waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
IWAVEform  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
IWAVEform?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)  
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf](#)  
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:SIGFormat](#)

**Arguments** String

**Returns** String

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM  
"waveform\_I" sets the I waveform name for carrier 1 to Waveform\_I.  
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:IWAVEFORM?  
returns the I waveform name for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:QWAVEform

Sets or returns the Q waveform name (signal addition via software) for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
QWAVEform  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
QWAVEform?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)

[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:VIAIntf](#)

[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:SIGFormat](#)

**Arguments** String

**Returns** String

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM`  
 “waveform\_Q” sets the Q waveform name for carrier 1 to Waveform\_Q.  
`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:QWAVEFORM?`  
 returns the Q waveform name for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:RFWAveform**

Sets or returns the RF waveform file name (signal addition via software) for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:`  
`RFWAveform`  
`RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:`  
`RFWAveform?`

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:TURNOn](#)  
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:VIAIntf](#)  
[RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaIadd:SIGFormat](#)

**Arguments** String

**Returns** String

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM`“wavef”  
 sets the RF waveform name for carrier 1 to Waveform\_RF.  
`RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:RFWAVEFORM?`  
 returns the RF waveform name for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:SIGFormat

Sets or returns the signal format selected for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:  
SIGFormat  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:  
SIGFormat?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn](#)

**Arguments** IQ, IFRF

**Returns** IQ, IFRF

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT  
IQ sets the status of format selection for carrier 1 to IQ.  
RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:SIGFORMAT?  
returns the status of signal addition format selection for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn

Sets or returns the “Turn On” status of signal addition for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:TURNOn  
{<NR1>|OFF|ON}  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNAladd:  
TURNOn?

**Arguments** Boolean

**Returns** Boolean

- Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON 1`  
sets the status of signal addition for carrier 1 to “On”.
- `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:TURNON?`  
returns the status of signal addition for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:VIAIntf**

Sets or returns the interference method selection for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: Interference addition

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
VIAIntf`  
`RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:  
VIAIntf?`

**Related Commands**     [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SIGNaladd:TURNon](#)

**Arguments**     SOFTWARE, HARDWARE

**Returns**     SOFTWARE, HARDWARE

- Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF  
SOFTWARE` sets the status of signal addition interference method for carrier 1 to Software.
- `RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SIGNALADD:VIAINTF?`  
returns the status of signal addition interference method for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARRoffset**

Sets or returns the sinusoidal interference carrier offset value for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: Interference addition

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:  
CARRoffset`

RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CARROffset?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET 1 sets the sinusoidal interference carrier offset value for carrier 1 to 1 Hz.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CARROFFSET? returns the sinusoidal interference carrier offset value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue

Sets or returns the sinusoidal interference C/I value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Interference addition

**Syntax** RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue  
RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:CIVALue?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:INTFaddition:SINUintf:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE 1 sets the sinusoidal interference C/I value for carrier 1 to 1 dB.

RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:CIVALUE? returns the sinusoidal interference C/I value for carrier 1.



## RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNOn

Sets or returns the “Turn On” status of sinusoidal interference for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Interference addition
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:INTFaddition:SINUintf:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON 1 sets the status of sinusoidal interference for carrier 1 to “On”.  RFXPRESS:GENPURPOSE:CARRIER1:INTFADDITION:SINUINTF:TURNON? returns the status of sinusoidal interference for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage:IVALue

Sets or returns the I value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage: IVALue RFXPress:GENPurpose:CARRIER<n>:IQImpairment:CARRleakage: IVALue?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:CARRleakage:TURNOn</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.01` sets the I value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:IVALUE?` returns the I value for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue**

Sets or returns the Q value for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: I/Q impairments

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue`  
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:QVALue?`

**Related Commands**     [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon](#)

**Arguments**     Real

**Returns**     Real

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.01` sets the Q value degree for carrier 1 to 0.01%.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:QVALUE?` returns the Q value for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon**

Sets or returns the “Turn On” status of carrier leakage for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: I/Q impairments

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon {<NR1>|OFF|ON}`  
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:CARRleakage:TURNon?`

<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the Carrier Leakage status for carrier 1 to On.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the Carrier Leakage status for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH1Val

Sets or returns the channel 1 value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:HWSKew:CH1Val</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:HWSKew:CH1Val?</p>
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:HWSKew:TURNON</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL 0.1 sets the channel 1 value for carrier 1 to 0.1 s.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the channel 1 value for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH2Val

Sets or returns the channel 2 value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:HWSKew:CH2Val</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:HWSKew:CH2Val?</p>

**Related Commands**    [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon](#)

**Arguments**    Real

**Returns**    Real

**Examples**    RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL 0.1  
sets the channel 2 value for carrier 1 to 0.1%.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH2VAL?  
returns the channel 2 value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val

Sets or returns the channel 3 value for carrier <n>, where <n> is the carrier number.

**Group**    Generic signal: I/Q impairments

**Syntax**    RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val  
RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH3Val?

**Related Commands**    [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:TURNon](#)

**Arguments**    Real

**Returns**    Real

**Examples**    RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL 0.1  
sets the channel 3 value for carrier 1 to 0.1%.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH3VAL?  
returns the channel 3 value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQIMpairment:HWSKew:CH4Val

Sets or returns the channel 4 value for carrier <n>, where <n> is the carrier number.

**Group**    Generic signal: I/Q impairments

**Syntax** RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH4Val  
RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:CH4Val?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL 0.1  
sets the channel 4 value for carrier 1 to 0.1%.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:CH4VAL?  
returns the channel 4 value for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn

Sets or returns the “Turn On” status of hardware skew for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: I/Q impairments

**Syntax** RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn  
{<NR1>|OFF|ON}  
RFXPress:GENPurpose:CARRIER<n>:IQImpairment:HWSKew:TURNOn?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON 1 sets  
the hardware skew status for carrier 1 to On.

RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:HWSKEW:TURNON?  
returns the hardware skew status for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance: IQIMbalance RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance: IQIMbalance?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:IQImpairment:IQIMbalance:TURNOn</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09 sets the IQ imbalance value for carrier 1 to 0.09%.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE? returns the IQ imbalance value for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance:TURNOn

Sets or returns the “Turn On” status of IQ Imbalance for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance: TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:IQImpairment:IQIMbalance: TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON 1 sets the IQ imbalance status for carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQIMBALANCE:TURNON? returns the IQ imbalance turn on status for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQSWap:TURNOn

Sets or returns the “Turn On” status of IQ Swap for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQSWap:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:IQImpairment:IQSWap:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON 1 sets the IQ swap status for carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:IQSWAP:TURNON? returns the IQ swap turn on status for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist:AMA2k

Sets or returns the AMAM2k value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist:AMA2k RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist:AMA2k?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:IQImpairment:NONLindist:TURNOn</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K 0.1` sets the AMAM2k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA2K?` returns the AMAM2k value for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k**

Sets or returns the AMAM3k value for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: I/Q impairments

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k`  
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMA3k?`

**Related Commands**     [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

**Arguments**     Real

**Returns**     Real

**Examples**     `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K 0.1` sets the AMAM3k value degree for carrier 1 to 0.1 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMA3K?` returns the AMAM3k value for carrier 1.

## **RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k**

Sets or returns the AMPM2k value for carrier <n>, where <n> is the carrier number.

**Group**     Generic signal: I/Q impairments

**Syntax**     `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k`  
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP2k?`



**Related Commands** [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

**Arguments** real

**Returns** real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K 0.1` sets the AMPM2k value degree for carrier 1 to 0.1 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP2K?` returns the AMPM2k value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k

Sets or returns the AMPM3k value for carrier <n>, where <n> is the carrier number.

**Group** Generic signal: I/Q impairments

**Syntax** `RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k`  
`RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:AMP3k?`

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon](#)

**Arguments** real

**Returns** real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K 0.1` sets the AMPM3k value degree for carrier 1 to 0.1 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:AMP3K?` returns the AMPM3k value for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQIMpairment:NONLindist:TURNon

Sets or returns the “Turn On” status of nonlinear distortion for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist: TURNon {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:IQImpairment:NONLindist: TURNon?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON 1 sets the nonlinear distortion status for carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:NONLINDIST:TURNON? returns the nonlinear distortion status for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError:DEGRees

Sets or returns the quadrature error value for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError: DEGRees RFXPress:GENPurpose:CARRier<n>:IQImpairment:QUADError: DEGRees?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:IQImpairment:QUADError:TURNon</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES 0.01 sets the quadrature error degree for carrier 1 to 0.01 degrees.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:DEGREES? returns the quadrature error for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError:TURNOn

Sets or returns the “Turn On” status of quadrature error for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: I/Q impairments
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRIER<n>:IQImpairment:QUADError: TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON 1 sets the Quadrature Error status for the carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1:IQIMPAIRMENT:QUADERROR:TURNON? returns the Quad Error status for the carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:KAISer

Sets or returns the Kaiser parameter for carrier <n>, where <n> is the carrier number. This is applicable only if the window selected is Kaiser.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRIER<n>:KAISer RFXPress:GENPurpose:CARRIER<n>:KAISer?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRIER&lt;n&gt;:WINDOW</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:KAISER 5 sets the Kaiser parameter for carrier 1 to 5 dB.

RFXPRESS:GENPURPOSE:CARRIER1:KAISER? returns the Kaiser parameter for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation

Sets the modulation of a carrier <n>, where <n> is the carrier number.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation  
RFXPress:GENPurpose:CARRier<n>:MODUlation?

**Arguments** String

The string values are:

No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)

**Returns** String

The string values returned are:

No Mod, QPSK, PI/2 QPSK, BPSK, PI/2 BPSK, PI/4 QPSK, n-DPSK, OQPSK, 8-PSK, PI/2 8-PSK, O-8PSK, SD-PSK, QAM 16, PI/2 QAM 16, QAM 32, QAM 64, QAM 128, QAM 256, QAM 512, QAM 1024, GMSK, 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK, ASK, OOK, AM, FM, PM, File1(Samples), File2(Symbols), File3(Maps)

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION "QPSK" sets the modulation of carrier 1 to QPSK.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION? returns the modulation of carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODFreq

Sets or returns the modulating frequency for AM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:  
MODFreq  
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:  
MODFreq?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ  
14e6 sets the modulating frequency for carrier 1 to 14 MHz.  
  
RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODFREQ?  
returns the modulating frequency for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:MODIndex

Sets or returns the AM modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to AM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:  
MODIndex  
RFXPress:GENPurpose:CARRier<n>:MODUlation:AMODulation:  
MODIndex?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX 3.1 sets the AM modulation index for carrier 1 to 3.1%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:AMODULATION:MODINDEX? returns the AM modulation index for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX

Sets or returns the ASK modulation index for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to ASK modulation.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX  
RFXPress:GENPurpose:CARRIER<n>:MODULATION:ASKEYING:MODINDEX?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX 12.2 sets the ASK modulation index for carrier 1 to 12.2%.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:ASKEYING:MODINDEX? returns the ASK modulation index for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MODULATION:FMODULATION:FRQDEVIATION

Sets or returns the frequency deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRIER<n>:MODULATION:FMODULATION:FRQDEVIATION

RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:FRQDeviation?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION 200e6 sets the frequency modulation for carrier 1 to 200 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:FRQDEVIATION? returns the symbol rate for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq

Sets or returns the modulating frequency for FM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to FM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq  
RFXPress:GENPurpose:CARRier<n>:MODUlation:FMODulation:MODFreq?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ 12e6 sets the modulating frequency for carrier 1 to 12 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FMODULATION:MODFREQ? returns the modulating frequency for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation

Sets or returns the FSK peak deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to either 2-FSK, 4-FSK, 8-FSK, 16-FSK, 32-FSK.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation RFXPress:GENPurpose:CARRier<n>:MODUlation:FSKEying:PKDEviation?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:MODUlation</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION 12.5e6 sets the FSK peak deviation for carrier 1 to 12.5 MHz.  RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:FSKEYING:PKDEVIATION? returns the FSK peak deviation for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue

Sets or returns the 'n' value for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue RFXPress:GENPurpose:CARRier<n>:MODUlation:NDPSk:NVALue?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:MODUlation</a>
<b>Arguments</b>	Real



**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE 8` sets the 'n' value of NDPSK modulation for carrier 1 to 8.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:NVALUE?` returns the 'n' value of NDPSK modulation for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation

Sets or returns the phase rotation for NDPSK modulation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to NDPSK.

**Group** Generic signal: Setup

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation`  
`RFXPress:GENPurpose:CARRIER<n>:MODULATION:NDPSK:PHROTation?`

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MODULATION](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION 20.3` sets the phase rotation for NDPSK modulation for carrier 1 to 20.3 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:NDPSK:PHROTATION?` returns the phase rotation for NDPSK modulation for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MODULATION:PMODULATION:MODFreq

Sets or returns the modulating frequency for PM for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:  
MODFreq  
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:  
MODFreq?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ15e6  
sets the modulating frequency for PM the carrier 1 to 15 MHz.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:MODFREQ?  
returns the modulating frequency for the carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:PHEDeviation

Sets or returns the phase deviation for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when the modulation is set to PM.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:  
PHEDeviation  
RFXPress:GENPurpose:CARRier<n>:MODUlation:PMODulation:  
PHEDeviation?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MODUlation](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION  
16.2 sets the phase deviation for carrier 1 to 16.2 degrees.

RFXPRESS:GENPURPOSE:CARRIER1:MODULATION:PMODULATION:PHEDEVIATION?  
returns the phase deviation for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MULTipath:ADDPATH (No Query Form)

Adds a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

**Group** Generic signal: Multipath

**Syntax** RFXPress:GENPurpose:CARRIER<n>:MULTipath:ADDPATH

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)

**Arguments** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:ADDPATH 2 adds two paths in the multipath table for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude

Sets or returns the amplitude value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

**Group** Generic signal: Multipath

**Syntax** RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude  
RFXPress:GENPurpose:CARRIER<n>:MULTipath:AMPLitude?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPath](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE -0.01 sets the amplitude for the currently selected path for the carrier 1 to -0.01 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:AMPLITUDE?` returns the amplitude for the currently selected path for the carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy**

Sets or returns the delay value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command. You cannot change the delay for the default path.

**Group** Generic signal: Multipath

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy`  
`RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELAy?`

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:MULTipath:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:MULTipath:SELPath](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAy 0.01` sets the delay for the currently selected path for carrier 1 to 0.01 symbols.  
`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELAy?` returns the delay for the currently selected path for carrier 1.

## **RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELPath (No Query Form)**

Deletes a path with the specified delay in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

**Group** Generic signal: Multipath

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:MULTipath:DELPath`

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn](#)

**Arguments** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:DELPATH 2` deletes the second path in the multipath table for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe

Sets or returns the phase value for the currently selected path in the multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on. The corresponding symbol should be selected in the multipath table before executing this command.

**Group** Generic signal: Multipath

**Syntax** `RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe`  
`RFXPress:GENPurpose:CARRier<n>:MULTipath:PHASe?`

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn](#)

[RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASE 0.01` sets the phase value for the currently selected path for carrier 1 to 0.01 degrees.

`RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:PHASE?` returns the phase value for the currently selected path for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath

Sets or returns the currently selected path in multipath table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when multipath for the carrier is turned on.

<b>Group</b>	Generic signal: Multipath
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath RFXPress:GENPurpose:CARRier<n>:MULTipath:SELPath?
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:CARRier&lt;n&gt;:MULTipath:TURNOn</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:SELPATH 0.01 selects the path with delay of 0.01 symbols in multipath table for the carrier 1.  RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:SELPATH? returns the currently selected path in multipath table for the carrier 1.

## RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn

Sets or returns the “Turn On” status of multipath settings for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Multipath
<b>Syntax</b>	RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn {<NR1> OFF ON} RFXPress:GENPurpose:CARRier<n>:MULTipath:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:GENPURPOSE:CARRIER1:MULTIPATH:TURNON 1 sets the multipath status for the carrier 1 to On.  RFXPRESS:GENPURPOSE:CARRIER1: MULTIPATH:TURNON? returns the multipath status for the carrier 1.

## RFXPress:GENPurpose:CARRier<n>:PHASe

Sets or returns the phase shift of the carrier 'n' where [n] is replaced with the carrier number. This parameter input is in degrees when the signal format is IF/RF and not valid when the signal format is IQ.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:GENPurpose:CARRier<n>:PHASe  
RFXPress:GENPurpose:CARRier<n>:PHASe?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPress:GENPurpose:CARRier1:PHASe 90 sets the phase shift of carrier 1 to 90 degrees.  
RFXPress:GENPurpose:CARRier1:PHASe? returns the phase shift of carrier 1.

## RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol (No Query Form)

Adds a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRier<n>:PWRRamping:ADDSymbol

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon](#)

**Arguments** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:ADDSYMBOL 5 adds the symbol 5 in the power ramp table for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:DELSymbol (No Query Form)

Deletes a symbol in the power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:PWRRamping:DELSymbol

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

**Arguments** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:DELSYMBOL 5 deletes the symbol 5 from the power ramping table for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION

Sets or returns the power ramp function for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION  
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:FUNCTION?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

**Arguments** NONE, LINEar, COSIne

**Returns** NONE, LINEar, COSIne



**Examples** `RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION LINEAR` sets the power ramp function for carrier 1 to Linear.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:FUNCTION?` returns the power ramp function for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL

Sets or returns the level for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

**Group** Generic signal: Power ramping

**Syntax** `RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL`  
`RFXPress:GENPurpose:CARRIER<n>:PWRRamping:LEVEL?`

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SELSymbol](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPress:GENPurpose:CARRIER1:PWRRamping:LEVEL 12.5` sets the level for the currently selected symbol for carrier 1 to 12.5 dB.

`RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:LEVEL?` returns the level of the currently selected symbol for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:PRDEExtend

Sets or returns the periodic extend in power ramp for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend  
 {<NR1>|OFF|ON}  
 RFXPress:GENPurpose:CARRier<n>:PWRRamping:PRDEExtend?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND 1 sets the periodic extend in power ramp for carrier 1 to On.  
 RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:PRDEXTEND? returns the periodic extend in power ramp for carrier 1.

## RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol

Sets or returns the currently selected symbol in power ramping table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol  
 RFXPress:GENPurpose:CARRier<n>:PWRRamping:SELSymbol?

**Related Commands** [RFXPress:GENPurpose:CARRier<n>:PWRRamping:TURNon](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL 5 selects the symbol 5 in the power ramping table for carrier 1.  
 RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SELSYMBOL? returns the currently selected symbol in the power ramping table for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL

Sets or returns the symbol value for the currently selected symbol in the power ramp table for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on. The corresponding symbol should be selected in the power ramping table before executing this command.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL  
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SYMBOL?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)  
[RFXPress:GENPurpose:CARRIER<n>:PWRRamping:SELSymbol](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL 21 sets the symbol value for the currently selected symbol for carrier 1 to 21.  
RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:SYMBOL? returns the symbol value for the currently selected symbol for carrier 1.

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME

Sets or returns the time in power ramping for carrier <n>, where <n> is the carrier number. This parameter can be accessed only when power ramping for the carrier is turned on.

**Group** Generic signal: Power ramping

**Syntax** RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME  
RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TIME?

**Related Commands** [RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn](#)

<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME 100e-6 sets the time in power ramping for carrier 1 to 100 <math>\mu</math>s.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TIME? returns the time in power ramping for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:PWRRamping:TURNOn

Sets or returns the “Turn On” status of power ramping settings for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Power ramping
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:PWRRamping:TURNOn          {&lt;NR1&gt; OFF ON}</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:PWRRamping:TURNOn?</p>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON 1 sets the power ramping status for carrier 1 to On.</p> <p>RFXPRESS:GENPURPOSE:CARRIER1:PWRRAMPING:TURNON? returns the power ramping status for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:STATE

Sets or returns the state of carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:STATE {&lt;NR1&gt; OFF ON}</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:STATE?</p>

<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER3:STATE 0 sets the state of carrier 3 to Off.</p> <p>RFXPRESS:GENPURPOSE:CARRIER3:STATE? returns the state of carrier 3.</p>

## RFXPress:GENPurpose:CARRIER<n>:SYMBrate

Sets or returns the symbol rate for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:SYMBrate</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:SYMBrate?</p>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:GENPURPOSE:CARRIER1:SYMBRATE 20e6 sets the symbol rate for carrier 1 to 20 MHz.</p> <p>RFXPress:GENPurpose:CARRIER1:SYMBrate? returns the symbol rate for carrier 1.</p>

## RFXPress:GENPurpose:CARRIER<n>:WINDow

Sets or returns the window for carrier <n>, where <n> is the carrier number.

<b>Group</b>	Generic signal: Setup
<b>Syntax</b>	<p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:WINDow</p> <p>RFXPress:GENPurpose:CARRIER&lt;n&gt;:WINDow?</p>
<b>Arguments</b>	<p>String</p> <p>The string values are:</p>

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

**Returns** String

The string values returned are:

None, Triangular, Hamming, Hanning, Blackman, Kaiser, Blackman-Harris, Exact Blackman, Flat Top, Tapered cosine, Chebyshev Ripple

**Examples** RFXPress:GENPurpose:CARRIER1:WINDOW "Triangular" sets the window of carrier 1 to Triangular.

RFXPress:GENPurpose:CARRIER1:WINDOW? returns the window of carrier 1.

## RFXPress:GENPurpose:CARType

Sets or returns the carrier mode. This is used to set the carrier mode as Single or Multi Carrier.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:CARType  
RFXPress:GENPurpose:CARType?

**Arguments** SINGLe MULTi

**Returns** SINGLe MULTi

**Examples** RFXPRESS:GENPURPOSE:CARTYPE SINGLe sets the carrier type to Single carrier.

RFXPRESS:GENPURPOSE:CARTYPE MULTi sets the carrier type to Multi-carrier.

RFXPRESS:GENPURPOSE:CARTYPE? returns the carrier type.

## RFXPress:GENPurpose:DELAllcarr (No Query Form)

Deletes all carriers from the carrier table. This command is applicable only in multi-carrier mode.

**Group** Generic signal: Multi-carrier settings

**Syntax** RFXPress:GENPurpose:DELAllcarr

**Related Commands** [RFXPress:GENPurpose:CARType](#)

**Examples** RFXPRESS:GENPURPOSE:DELALLCARR deletes all the carriers from the carrier table.

## RFXPress:GENPurpose:DELCarrier (No Query Form)

Deletes the specified carrier from the carrier table.

**Group** Generic signal: Setup

**Syntax** RFXPress:GENPurpose:DELCarrier

**Arguments** Integer

**Examples** RFXPRESS:GENPURPOSE:DELCARRIER 2 deletes carrier 2 from the table.

## RFXPress:GENPurpose:MLTCarrier:BSEFreq

Sets or returns the multi-carrier base frequency. This parameter can be accessed only when the signal format is IF/RF.

**Group** Generic signal: Multi-carrier settings

**Syntax** RFXPress:GENPurpose:MLTCarrier:BSEFreq  
RFXPress:GENPurpose:MLTCarrier:BSEFreq?

**Related Commands** [RFXPress:GENPurpose:ADDCarrier](#)  
[RFXPress:GENPurpose:MLTCarrier\[:STATE\]](#)  
[RFXPress:GENPurpose:MLTCarrier:OPTion](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ 11e6 sets the multi-carrier base frequency to 11 MHz.  
RFXPRESS:GENPURPOSE:MLTCARRIER:BSEFREQ? returns the multi-carrier base frequency.

## RFXPress:GENPurpose:MLTCarrier:BWIDth

Sets or returns the multi-carrier bandwidth. This parameter can be accessed only when the signal format is IF/RF.

**Group** Generic signal: Multi-carrier settings

**Syntax** RFXPress:GENPurpose:MLTCarrier:BWIDth  
RFXPress:GENPurpose:MLTCarrier:BWIDth?

**Related Commands** [RFXPress:GENPurpose:ADDCarrier](#)  
[RFXPress:GENPurpose:MLTCarrier\[:STATe\]](#)  
[RFXPress:GENPurpose:MLTCarrier:OPTion](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH 5e6 sets the multi-carrier bandwidth to 5 MHz.  
RFXPRESS:GENPURPOSE:MLTCARRIER:BWIDTH? returns the multi-carrier bandwidth.

## RFXPress:GENPurpose:MLTCarrier:CARSpacing

Sets or returns the multi-carrier carrier spacing.

**Group** Generic signal: Multi-carrier settings



<b>Syntax</b>	<code>RFXPress:GENPurpose:MLTCarrier:CARSpacing</code> <code>RFXPress:GENPurpose:MLTCarrier:CARSpacing?</code>
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:ADDCarrier</a> <a href="#">RFXPress:GENPurpose:MLTCarrier[:STATe]</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:OPTion</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<code>RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING 10e6</code> sets the multi-carrier carrier spacing to 10 MHz.  <code>RFXPRESS:GENPURPOSE:MLTCARRIER:CARSPACING?</code> returns the multi-carrier carrier spacing.

## RFXPress:GENPurpose:MLTCarrier:CENFrequency

Sets or returns the multi-carrier center frequency. This parameter can be accessed only when the signal format is IF/RF.

<b>Group</b>	Generic signal: Multi-carrier settings
<b>Syntax</b>	<code>RFXPress:GENPurpose:MLTCarrier:CENFrequency</code> <code>RFXPress:GENPurpose:MLTCarrier:CENFrequency?</code>
<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:ADDCarrier</a> <a href="#">RFXPress:GENPurpose:MLTCarrier[:STATe]</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:OPTion</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<code>RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY 12e6</code> sets the multi-carrier center frequency to 12 MHz.

`RFXPRESS:GENPURPOSE:MLTCARRIER:CENFREQUENCY?` returns the multi-carrier center frequency.

## RFXPress:GENPurpose:MLTCarrier:INIOffset

Sets or returns the multi-carrier initial offset. This parameter can be accessed only when the signal format is IQ.

**Group** Generic signal: Multi-carrier settings

**Syntax** `RFXPress:GENPurpose:MLTCarrier:INIOffset`  
`RFXPress:GENPurpose:MLTCarrier:INIOffset?`

**Related Commands** [RFXPress:GENPurpose:ADDCarrier](#)  
[RFXPress:GENPurpose:MLTCarrier\[:STATe\]](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET 20e6` sets the multi-carrier initial offset to 20 MHz.  
`RFXPRESS:GENPURPOSE:MLTCARRIER:INIOFFSET?` returns the multi-carrier initial offset.

## RFXPress:GENPurpose:MLTCarrier:OPTion

Sets or returns the multi-carrier option. This command indicates if the group settings should be considered as Range frequency or Center frequency while adding multiple carriers. The Range and Center options are applicable only for IF/RF mode.

**Group** Generic signal: Multi-carrier settings

**Syntax** `RFXPress:GENPurpose:MLTCarrier:OPTion`  
`RFXPress:GENPurpose:MLTCarrier:OPTion?`

**Related Commands** [RFXPress:GENPurpose:ADDCarrier](#)

[RFXPress:GENPurpose:MLTCarrier:CENFrequency](#)

[RFXPress:GENPurpose:MLTCarrier:BWIDth](#)

[RFXPress:GENPurpose:MLTCarrier:PHSShift](#)

[RFXPress:GENPurpose:MLTCarrier:RNDPhase](#)

[RFXPress:GENPurpose:MLTCarrier:BSEFreq](#)

[RFXPress:GENPurpose:MLTCarrier:CARSpacing](#)

**Arguments**    CENTER, RANGE

**Returns**        CENTER, RANGE

**Examples**        RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION CENTER sets the mult-carrier option to Center.

RFXPRESS:GENPURPOSE:MLTCARRIER:OPTION? returns the mult-carrier option.

## RFXPress:GENPurpose:MLTCarrier:PHSShift

Sets or returns the multi-carrier phase shift. This parameter can be accessed only when the signal format is IF/RF. If random phase is enabled, then that will take higher precedence.

**Group**            Generic signal: Multi-carrier settings

**Syntax**           RFXPress:GENPurpose:MLTCarrier:PHSShift  
RFXPress:GENPurpose:MLTCarrier:PHSShift?

**Related Commands**    [RFXPress:GENPurpose:ADDCarrier](#)  
[RFXPress:GENPurpose:MLTCarrier:RNDPhase](#)

**Arguments**        Real

**Returns**            Real

**Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT 20 sets the multi-carrier phase shift to 20.  
RFXPRESS:GENPURPOSE:MLTCARRIER:PHSSHIFT? returns the multi-carrier phase shift.

## RFXPress:GENPurpose:MLTCarrier:RNDPhase

Sets or returns the multi-carrier phase as random or not. This parameter can be accessed only when the signal format is IF/RF.

**Group** Generic signal: Multi-carrier settings

**Syntax** RFXPress:GENPurpose:MLTCarrier:RNDPhase {<NR1>|OFF|ON}  
RFXPress:GENPurpose:MLTCarrier:RNDPhase?

**Related Commands** [RFXPress:GENPurpose:ADDCarrier](#)  
[RFXPress:GENPurpose:MLTCarrier:PHSShift](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE 1 sets the multi-carrier phase to Random.  
RFXPRESS:GENPURPOSE:MLTCARRIER:RNDPHASE? returns the multi-carrier phase status.

## RFXPress:GENPurpose:MLTCarrier[:STATE]

Sets or returns the multi-carrier state as On/Off. This is used when adding more than one carrier at a time. Based on the state of this command, the other multi-carrier group settings commands are considered.

**Group** Generic signal: Multi-carrier

**Syntax** RFXPress:GENPurpose:MLTCarrier[:STATE] {<NR1>|OFF|ON}  
RFXPress:GENPurpose:MLTCarrier[:STATE]?

<b>Related Commands</b>	<a href="#">RFXPress:GENPurpose:ADDCarrier</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:OPTion</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:CENFrequency</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:BWIDth</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:PHSShift</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:RNDPhase</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:BSEFreq</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:CARSpacing</a> <a href="#">RFXPress:GENPurpose:MLTCarrier:INIOffset</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p><code>RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE] 1</code> sets the multi-carrier status to On.</p> <p><code>RFXPRESS:GENPURPOSE:MLTCARRIER[:STATE]?</code> returns the multi-carrier status.</p>

## RFXPress:GENPurpose:SPARAmeter:FBWMode

Sets or returns the filter bandwidth mode in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

<b>Group</b>	Generic signal: S-Parameter
<b>Syntax</b>	<code>RFXPress:GENPurpose:SPARAmeter:FBWMode</code> <code>RFXPress:GENPurpose:SPARAmeter:FBWMode?</code>
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SPARAmeter:TURNon</a>
<b>Arguments</b>	AUTO, FULL, MANua1

**Returns** AUTO, FULL, MANua1

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE MANUAL sets the filter bandwidth mode to Manual.  
RFXPRESS:GENPURPOSE:SPARAMETER:FBWMODE? returns the filter bandwidth.

## RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE

Sets or returns the status of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE {<NR1>|OFF|ON}  
RFXPress:GENPurpose:SPARAmeter:FILE<n>:ENABLE?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)  
[RFXPress:GENPurpose:SPARAmeter:MODE](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE 1 sets the status of file 1 to On.  
RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:ENABLE? returns the status of file 1.

## RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME

Sets or returns the file name of the S-parameter file <n>. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

In the non-cascading mode, only the first file (where <n> = 1) parameters can be accessed.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME  
RFXPress:GENPurpose:SPARAmeter:FILE<n>:NAME?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)  
[RFXPress:GENPurpose:SPARAmeter:MODE](#)

**Arguments** String

**Returns** String

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME "E:\Test.s2p" sets the file 1 name to "E:\Test.s2p".  
RFXPRESS:GENPURPOSE:SPARAMETER:FILE1:NAME? returns the name of file 1.

## RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth

Sets or returns the filter bandwidth in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the filter bandwidth mode is set to Manual.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth  
RFXPress:GENPurpose:SPARAmeter:FILTer:BWIDth?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)  
[RFXPress:GENPurpose:SPARAmeter:FBWMode](#)

<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p><code>PRFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTh 2e9</code> sets the filter bandwidth to 2 GHz.</p> <p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FILTER:BWIDTh?</code> returns the filter bandwidth.</p>

## RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe

Sets or returns the four-port data type in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the four-port file is selected.

<b>Group</b>	Generic signal: S-Parameter
<b>Syntax</b>	<p><code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe</code>  <code>RFXPress:GENPurpose:SPARAmeter:FOURport:DATTyPe?</code></p>
<b>Related Commands</b>	<p><a href="#">RFXPress:COMPIle:SIGFormat</a>  <a href="#">RFXPress:GENPurpose:SPARAmeter:TURNon</a></p>
<b>Arguments</b>	SNGEnded, DIFFerential
<b>Returns</b>	SNGEnded, DIFFerential
<b>Examples</b>	<p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPe SNGENDED</code> sets the four-port data type to Single-ended.</p> <p><code>RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DATTYPe?</code> returns the four-port data type.</p>

## RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYOut

Sets or returns the differential layout in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be



accessed only when the S-parameter settings are turned on and the four-port data type is differential.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout  
RFXPress:GENPurpose:SPARAmeter:FOURport:DIFFential:LAYout?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNon](#)  
[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

**Arguments** String  
The string values are:  
DC12, CD12  
DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

**Returns** String  
The string values returned are:  
DC12, CD12  
DC 12 corresponds to the Typical layout and CD12 corresponds to the Alternate layout.

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT  
"DC12" sets the differential layout of a four-port network to DC12. DC 12 corresponds to the Typical layout.  
RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:DIFFENTIAL:LAYOUT?  
returns the differential layout for a four-port network.

## RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEended:RXMinus

Sets or returns the single ended Rx- selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

<b>Group</b>	Generic signal: S-Parameter
<b>Syntax</b>	RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXMINus RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXMINus?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SPARAmeter:TURNon</a> <a href="#">RFXPress:GENPurpose:SPARAmeter:FOURport:DATTtype</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SGENDED:RXMINUS 4 sets the Rx- selection to 4.  RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SGENDED:RXMINUS? returns the Rx- selection.

## RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus

Sets or returns the single ended Rx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

<b>Group</b>	Generic signal: S-Parameter
<b>Syntax</b>	RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus RFXPress:GENPurpose:SPARAmeter:FOURport:SGENded:RXPLus?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SPARAmeter:TURNon</a> <a href="#">RFXPress:GENPurpose:SPARAmeter:FOURport:DATTtype</a>
<b>Arguments</b>	Integer

**Returns** Integer

**Examples** `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS 3` sets the Rx+ selection to 3.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:RXPLUS?` returns the Rx+ selection.

## RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus

Sets or returns the single ended Tx– selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

**Group** Generic signal: S-Parameter

**Syntax** `RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus`  
`RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXMInus?`

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

[RFXPress:GENPurpose:SPARAmeter:TURNon](#)

[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

**Arguments** Integer

**Returns** Integer

**Examples** `RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS 2` sets the Tx– selection to 2.

`RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXMINUS?` returns the Tx– selection.

## RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLus

Sets or returns the single ended Tx+ selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter

can be accessed only when the S-parameter settings are turned on and a four-port single-ended file is selected.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLUS  
RFXPress:GENPurpose:SPARAmeter:FOURport:SNGEnded:TXPLUS?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)  
[RFXPress:GENPurpose:SPARAmeter:FOURport:DATType](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS 1 sets the Tx+ selection to 1.  
RFXPRESS:GENPURPOSE:SPARAMETER:FOURPORT:SNGENDED:TXPLUS? returns the Tx+ selection.

## RFXPress:GENPurpose:SPARAmeter:INVErt

Sets or returns the Apply Inversion parameter in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

**Group** Generic signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:INVErt {<NR1>|OFF|ON}  
RFXPress:GENPurpose:SPARAmeter:INVErt?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** `RFXPRESS:GENPURPOSE:SPARAMETER:INVERT 1` sets the Apply Inversion parameter to On.  
`RFXPRESS:GENPURPOSE:SPARAMETER:INVERT?` returns the status of the Apply Inversion parameter.

## RFXPress:GENPurpose:SPARAmeter:MODE

Sets or returns the S-parameter mode. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on.

**Group** Generic signal: S-Parameter

**Syntax** `RFXPress:GENPurpose:SPARAmeter:MODE`  
`RFXPress:GENPurpose:SPARAmeter:MODE?`

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

**Arguments** NONCascading, CASCading

**Returns** NONCascading, CASCading

**Examples** `RFXPRESS:GENPURPOSE:SPARAMETER:MODE CASCADING` sets the S-parameter mode to Cascading.  
`RFXPRESS:GENPURPOSE:SPARAMETER:MODE?` returns the S-parameter mode.

## RFXPress:GENPurpose:SPARAmeter:TURNOn

Sets or returns the S-parameter settings “TurnOn” status. The S-parameter settings are applicable only when the signal format set is IF/RF.

**Group** Generic Signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:TURNOn {<NR1> | OFF | ON}  
 RFXPress:GENPurpose:SPARAmeter:TURNOn?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:GENPURPOSE:SPARAMETER:TURNON 1 enabled the S-parameter settings.  
 RFXPRESS:GENPURPOSE:SPARAMETER:TURNON ? returns the status of the S-parameter settings.

## RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction

Sets or returns the two-port selection in S-parameter. The S-parameter settings are applicable only when the signal format set is IF/RF. This parameter can be accessed only when the S-parameter settings are turned on and the two-port file is selected.

**Group** Generic Signal: S-Parameter

**Syntax** RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction  
 RFXPress:GENPurpose:SPARAmeter:TWOPort:SELEction?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SPARAmeter:TURNOn](#)

**Arguments** String  
 The string values are:  
 S11, S12, S21, S22

**Returns** string  
 The string values returned are:  
 S11, S12, S21, S22

**Examples**     `RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION"12"` sets the two-port selection as "12".

`RFXPRESS:GENPURPOSE:SPARAMETER:TWOPORT:SELECTION?` returns the two-port selection.

## RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex

Sets or returns the AM modulation index for sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when sub-carrier modulation is set to AM.

**Group**     Generic signal: Sub-carrier modulation

**Syntax**     `RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex`  
`RFXPress:GENPurpose:SUBCarrmod:AMODulation:MODIndex?`

**Related Commands**     [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SUBCarrmod:TURNOn](#)  
[RFXPress:GENPurpose:SUBCarrmod:MODUlation](#)

**Arguments**     Real

**Returns**     Real

**Examples**     `RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX 21.3` sets the AM modulation index for sub-carrier modulation to 21.3%.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:AMODULATION:MODINDEX?` returns the AM modulation index for sub-carrier modulation.

## RFXPress:GENPurpose:SUBCarrmod:CARRfreq

Sets or returns the carrier frequency in sub-carrier modulation. The sub-carrier modulation settings is applicable only when the signal format set is IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

**Group**     Generic signal: Sub-carrier modulation

<b>Syntax</b>	RFXPress:GENPurpose:SUBCarrmod:CARRfreq RFXPress:GENPurpose:SUBCarrmod:CARRfreq?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SUBCarrmod:TURNon</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ 2e9 sets the carrier frequency for sub-carrier modulation to 2 GHz.  RFXPRESS:GENPURPOSE:SUBCARRMOD:CARRFREQ? returns the carrier frequency for sub-carrier modulation.

## RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation

Sets or returns the frequency deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to FM.

<b>Group</b>	Generic signal: Sub-carrier modulation
<b>Syntax</b>	RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation RFXPress:GENPurpose:SUBCarrmod:FMODulation:FRQDeviation?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SUBCarrmod:TURNon</a> <a href="#">RFXPress:GENPurpose:SUBCarrmod:MODulation</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real



**Examples**     `RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION 20e6`  
sets the frequency deviation in sub-carrier modulation to 20 MHz.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:FMODULATION:FRQDEVIATION?`  
returns the frequency deviation in sub-carrier modulation.

## RFXPress:GENPurpose:SUBCarrmod:MODUlation

Sets or returns the modulation type in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF. This parameter can be accessed only when the sub-carrier modulation is turned on.

**Group**     Generic signal: Sub-carrier modulation

**Syntax**     `RFXPress:GENPurpose:SUBCarrmod:MODUlation`  
`RFXPress:GENPurpose:SUBCarrmod:MODUlation?`

**Related Commands**     [RFXPress:COMPile:SIGFormat](#)  
[RFXPress:GENPurpose:SUBCarrmod:TURNon](#)

**Arguments**     String  
The string values are:  
AM, FM, PM

**Returns**     String  
The string values returned are:  
AM, FM, PM

**Examples**     `RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION "AM"` sets the sub-carrier modulation type to AM.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:MODULATION?` returns the sub-carrier modulation type.

## RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation

Sets or returns the phase deviation in sub-carrier modulation. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

This parameter can be accessed only when the sub-carrier modulation is turned on and when the sub-carrier modulation is set to PM.

<b>Group</b>	Generic signal: Sub-carrier modulation
<b>Syntax</b>	RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation RFXPress:GENPurpose:SUBCarrmod:PMODulation:PHEDeviation?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a> <a href="#">RFXPress:GENPurpose:SUBCarrmod:TURNon</a> <a href="#">RFXPress:GENPurpose:SUBCarrmod:MODUlation</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIAION 15.3 sets the phase deviation in sub-carrier modulation to 15.3 degrees.  RFXPRESS:GENPURPOSE:SUBCARRMOD:PMODULATION:PHEDEVIAION? returns the phase deviation in sub-carrier modulation.

## RFXPress:GENPurpose:SUBCarrmod:TURNon

Sets or returns the sub-carrier modulation “Turn On” status. The sub-carrier modulation settings are applicable only when the signal format is set to IF/RF.

<b>Group</b>	Generic signal: Sub-carrier modulation
<b>Syntax</b>	RFXPress:GENPurpose:SUBCarrmod:TURNon {<NR1>   OFF   ON} RFXPress:GENPurpose:SUBCarrmod:TURNon?
<b>Related Commands</b>	<a href="#">RFXPress:COMPile:SIGFormat</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean

**Examples**     `RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON 1` sets the status of sub-carrier modulation to On.

`RFXPRESS:GENPURPOSE:SUBCARRMOD:TURNON?` returns the status of sub-carrier modulation.

## RFXPress:IMPORtfile:BASEband

Sets or returns the import file baseband status. Set the import file baseband status before importing any .iqt, .tiq files to set the imported waveforms as carrier baseband signals.

**Group**     Import from file

**Syntax**     `RFXPress:IMPORtfile:BASEband {<NR1>|OFF|ON}`  
`RFXPress:IMPORtfile:BASEband?`

**Related Commands**     [RFXPress:IMPORtfile:TYPE](#)  
[RFXPress:IMPORtfile:DATAtype](#)  
[RFXPress:IMPORtfile:FORMat](#)  
[RFXPress:IMPORtfile:OVERwrite](#)

**Arguments**     Boolean

**Returns**     Boolean

**Examples**     `RFXPRESS:IMPORTFILE:BASEBAND 1` sets the import file baseband status to On.

`RFXPRESS:IMPORTFILE:BASEBAND?` returns the currently set import file baseband status.

## RFXPress:IMPORtfile:DATAtype

Sets or returns the import file data type selection. The import file data type will have to be set before importing any file.

**Group**     Import from file

<b>Syntax</b>	RFXPress:IMPOrtfile:DATAtype RFXPress:IMPOrtfile:DATAtype?
<b>Related Commands</b>	<a href="#">RFXPress:IMPOrtfile:TYPE</a> <a href="#">RFXPress:IMPOrtfile:FORMat</a> <a href="#">RFXPress:IMPOrtfile:OVERwrite</a> <a href="#">RFXPress:IMPOrtfile:BASEband</a>
<b>Arguments</b>	The data type values are: I - I data Q - Q data RF - IF/RF data
<b>Returns</b>	I - I data Q - Q data RF - IF/RF data

## RFXPress:IMPOrtfile:FORMat

Sets or returns the import file format selection for .txt and .csv files. The import file format type will have to be set before importing any .txt or .csv file.

<b>Group</b>	Import from file
<b>Syntax</b>	RFXPress:IMPOrtfile:FORMat RFXPress:IMPOrtfile:FORMat?
<b>Related Commands</b>	<a href="#">RFXPress:IMPOrtfile:TYPE</a> <a href="#">RFXPress:IMPOrtfile:DATAtype</a> <a href="#">RFXPress:IMPOrtfile:OVERwrite</a> <a href="#">RFXPress:IMPOrtfile:BASEband</a>
<b>Arguments</b>	The various format type values are: TVOLt – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLT – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

**Returns** TVOLT – when the data format in the file is: Time, Volt <cr><lf> (TDS CSV format)

PVOLT – when the data format in the file is: Points, Volt <cr><lf>

VOLT – when the data format in the file is: Volt <cr><lf>

VAWG – when the data format in the file is: VOLT <cr><lf> AWG710 format

**Examples** RFXPRESS:IMPORTFILE:FORMAT VOLT sets the import file format type to VOLT.

RFXPRESS:IMPORTFILE:FORMAT? returns the currently selected import file format type.

## RFXPress:IMPORtfile:IMPORt (No Query Form)

Imports the specified file. Set the import file type filter, data type, data format, overwrite, and baseband status before importing any file into RFXpress. The file must exist and should be valid and readable.

**Group** Import from file

**Syntax** RFXPress:IMPORtfile:IMPORt

**Related Commands** [RFXPress:IMPORtfile:TYPE](#)  
[RFXPress:IMPORtfile:DATAtype](#)  
[RFXPress:IMPORtfile:FORMat](#)  
[RFXPress:IMPORtfile:OVERwrite](#)  
[RFXPress:IMPORtfile:BASEband](#)

**Arguments** String

**Examples** RFXPRESS:IMPORTFILE:IMPORT "C:\Data.iqt" imports the file "C:\Data.iqt".

## RFXPress:IMPORtfile:OVERwrite

Sets or returns the import file overwrite status. Set the import file overwrite status before importing any file.

**Group** Import from file

**Syntax** RFXPress:IMPORtfile:OVERwrite {<NR1>|OFF|ON}  
RFXPress:IMPORtfile:OVERwrite?

**Related Commands** [RFXPress:IMPORtfile:TYPE](#)  
[RFXPress:IMPORtfile:DATAtype](#)  
[RFXPress:IMPORtfile:FORMat](#)  
[RFXPress:IMPORtfile:BASEband](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:IMPORTFILE:OVERWRITE 1 sets the import file overwrite status to On.  
RFXPRESS:IMPORTFILE:OVERWRITE? returns the currently set import file overwrite status.

## RFXPress:IMPORtfile:TYPE

Set and returns the import file type filter. Set the import file type before importing any file into RFXpress.

**Group** Import from file

**Syntax** RFXPress:IMPORtfile:TYPE  
RFXPress:IMPORtfile:TYPE?

**Related Commands** [RFXPress:IMPORtfile:DATAtype](#)  
[RFXPress:IMPORtfile:FORMat](#)

[RFXPress:IMPOrtfile:OVERwrite](#)

[RFXPress:IMPOrtfile:BASEband](#)

**Arguments** The file type filter values for various file types which can be imported are:

WAVE - .wfm file

IQT - .iqt file

TIQ - .tiq file

PAT - .pat file

TEKWfm - Tekscope .wfm files

ISF - .isf file

CSV - .csv file

TXT - .txt file

MAT - .mat file

ADS - .txt file which contains data in Agilent ADS format

VSA - .csv file which contains data in Agilent VSA format

**Returns** WAVE - .wfm file

IQT - .iqt file

TIQ - .tiq file

PAT - .pat file

TEKWfm - Tekscope .wfm files

ISF - .isf file

CSV - .csv file

TXT - .txt file

MAT - .mat file

ADS - .txt file which contains data in Agilent ADS format

VSA - .csv file which contains data in Agilent VSA format

**Examples** RFXPRESS:IMPORTFILE:TYPE MAT sets the file type filter to import .mat files.

RFXPRESS:IMPORTFILE:TYPE? returns the currently selected import filter.

## RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName

Sets the waveform to a specified AWG channel. Returns the waveform name which is set to a specified AWG channel. <n> is the channel number.

**Group** Instrument control

**Syntax** RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName  
RFXPress:INSTctrl:AWGenerator:CHANnel<n>:WAVName?

**Arguments** String

**Returns** String

**Examples** RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME "wav1" sets the waveform Wav1 to channel 2.

RFXPRESS:INSTCTRL:AWGENERATOR:CHANNEL2:WAVNAME? returns the waveform name set on channel 2.

## RFXPress:RADAR:CARRIER:AMPLitude

Sets or returns the carrier amplitude. Set the signal format to IQ before executing this command.

**Group** Radar: Carrier settings

**Syntax** RFXPress:RADAR:CARRIER:AMPLitude  
RFXPress:RADAR:CARRIER:AMPLitude?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:CARRIER:AMPLITUDE 1 sets the carrier amplitude to 1 V<sub>pp</sub>.

RFXPRESS:RADAR:CARRIER:AMPLITUDE? returns the carrier amplitude.



## RFXPress:RADAR:CARRIER:COHERent

Sets or returns coherent carrier turn on status. Set the signal format to IF/RF before executing this command.

**Group** Radar: Carrier settings

**Syntax** RFXPress:RADAR:CARRIER:COHERent {<NR1>|OFF|ON}  
RFXPress:RADAR:CARRIER:COHERent?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:CARRIER:COHERENT 1 sets the coherent carrier status to On.  
RFXPRESS:RADAR:CARRIER:COHERENT? returns the coherent carrier status.

## RFXPress:RADAR:CARRIER:FREQUENCY

Sets or returns the carrier frequency. Set the signal format to IF/RF before executing this command.

**Group** Radar: Carrier settings

**Syntax** RFXPress:RADAR:CARRIER:FREQUENCY  
RFXPress:RADAR:CARRIER:FREQUENCY?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:CARRIER:FREQUENCY 100e06 sets the carrier frequency to 100 MHz.

RFXPRESS:RADAR:CARRIER:FREQUENCY? returns the carrier frequency.

## RFXPress:RADAR:CARRIER:MAGNitude

Sets or returns the carrier magnitude. Set the signal format to IF/RF before executing this command.

**Group** Radar: Carrier settings

**Syntax** RFXPress:RADAR:CARRIER:MAGNitude  
RFXPress:RADAR:CARRIER:MAGNitude?

**Related Commands** [RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:CARRIER:MAGNITUDE -20 sets the carrier magnitude to -20 dBm.

RFXPRESS:RADAR:CARRIER:MAGNITUDE? returns the carrier magnitude.

## RFXPress:RADAR:INTFaddition:NOISe:BANDwidth

Sets or returns the Interference Addition Noise bandwidth value.

**Group** Radar: Interference addition

**Syntax** RFXPress:RADAR:INTFaddition:NOISe:BANDwidth  
RFXPress:RADAR:INTFaddition:NOISe:BANDwidth?

**Related Commands** [RFXPress:RADAR:INTFaddition:NOISe:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH 0.1` sets the bandwidth value to 0.1 fs.

`RFXPRESS:RADAR:INTFADDITION:NOISE:BANDWIDTH?` returns the bandwidth value.

## RFXPress:RADAR:INTFaddition:NOISe:SNRValue

Sets or returns the Interference Addition Noise SNR value.

**Group** Radar: Interference addition

**Syntax** `RFXPress:RADAR:INTFaddition:NOISe:SNRValue`  
`RFXPress:RADAR:INTFaddition:NOISe:SNRValue?`

**Related Commands** [RFXPress:RADAR:INTFaddition:NOISe:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE -10` sets the Interference Addition Noise SNR value to -10 dB.

`RFXPRESS:RADAR:INTFADDITION:NOISE:SNRVALUE?` returns the Interference Addition Noise SNR value.

## RFXPress:RADAR:INTFaddition:NOISe:TURNOn

Sets or returns the “Turn On” status of Interference Addition Noise.

**Group** Radar: Interference addition

**Syntax** `RFXPress:RADAR:INTFaddition:NOISe:TURNOn {<NR1>|OFF|ON}`  
`RFXPress:RADAR:INTFaddition:NOISe:TURNOn?`

**Arguments** Boolean

**Returns** Boolean

**Examples**     `RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON 1` sets the interference addition noise status to On.

`RFXPRESS:RADAR:INTFADDITION:NOISE:TURNON?` returns the interference addition noise status.

## **RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform**

Sets or returns the I waveform file name.

**Group**         Radar: Interference addition

**Syntax**        `RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform`  
`RFXPress:RADAR:INTFaddition:SIGNaladd:IWAVEform?`

**Related Commands**     [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

**Arguments**     String

**Returns**        String

**Examples**       `RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM "waveform1_I"`  
sets the I waveform name to Waveform1\_I.

`RFXPRESS:RADAR:INTFADDITION:SIGNALADD:IWAVEFORM?` returns the I waveform file name.

## **RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform**

Sets or returns the Q waveform file name.

**Group**         Radar: Interference addition

**Syntax**        `RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform`  
`RFXPress:RADAR:INTFaddition:SIGNaladd:QWAVEform?`

**Related Commands**     [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

**Arguments**     String

**Returns** String

**Examples** RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM "waveform1\_Q"  
sets the Q waveform name to Waveform1\_Q.

RFXPRESS:RADAR:INTFADDITION:SIGNALADD:QWAVEFORM? returns the Q waveform file name.

## RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform

Sets or returns the RF waveform file name.

**Group** Radar: Interference addition

**Syntax** RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform  
RFXPress:RADAR:INTFaddition:SIGNaladd:RFWAVEform?

**Related Commands** [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

**Arguments** String

**Returns** String

**Examples** RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM  
"waveform1\_RF" sets the RF waveform name to Waveform1\_RF.

RFXPRESS:RADAR:INTFADDITION:SIGNALADD:RFWAVEFORM? returns the RF waveform file name.

## RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat

Sets or returns the signal format selected.

**Group** Radar: Interference addition

**Syntax** RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat  
RFXPress:RADAR:INTFaddition:SIGNaladd:SIGFormat?

**Related Commands** [RFXPress:RADAR:INTFaddition:SIGNaladd:TURNon](#)

<b>Arguments</b>	String The string values are: IQ IFRF
<b>Returns</b>	String The string values returned are: IQ IFRF
<b>Examples</b>	RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT IQ sets the signal format selection to IQ  RFXPRESS:RADAR:INTFADDITION:SIGNALADD:SIGFORMAT? returns the signal format selection.

## RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn

Sets or returns the signal addition “Turn On” status.

<b>Group</b>	Radar: Interference addition
<b>Syntax</b>	RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn {<NR1> OFF ON} RFXPress:RADAR:INTFaddition:SIGNaladd:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON 1 sets the status of signal addition settings to On.  RFXPRESS:RADAR:INTFADDITION:SIGNALADD:TURNON? returns status of signal addition settings.

## RFXPress:RADAR:INTFaddition:SIGNaladd:VIAlntf

Sets or returns the interference method selection.

<b>Group</b>	Radar: Interference addition
<b>Syntax</b>	RFXPress:RADAR:INTFaddition:SIGNAIadd:VIAIntf RFXPress:RADAR:INTFaddition:SIGNAIadd:VIAIntf?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:INTFaddition:SIGNAIadd:TURNOn</a>
<b>Arguments</b>	String The string values are: SOFTWARE HARDWARE
<b>Returns</b>	String The string values returned are: SOFTWARE HARDWARE
<b>Examples</b>	RFXPRESS:RADAR:INTFADDITION: SIGNALADD: VIAINTF SOFTWARE sets the interference method selection to Software.  RFXPRESS:RADAR:INTFADDITION: SIGNALADD: VIAINTF? returns the interference method selection.

## RFXPress:RADAR:IQImpairment:CARRleakage:IVALue

Sets or returns the carrier leakage I value.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	RFXPress:RADAR:IQImpairment:CARRleakage:IVALue RFXPress:RADAR:IQImpairment:CARRleakage:IVALue?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:IQImpairment:CARRleakage:TURNOn</a>
<b>Arguments</b>	Real

**Returns** Real

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE 0.1 sets the carrier leakage I value to 0.1%.  
RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:IVALUE? returns the carrier leakage I value.

## RFXPress:RADAR:IQImpairment:CARRleakage:QVALue

Sets or returns the carrier leakage Q value.

**Group** Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQImpairment:CARRleakage:QVALue  
RFXPress:RADAR:IQImpairment:CARRleakage:QVALue?

**Related Commands** [RFXPress:RADAR:IQImpairment:CARRleakage:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE 0.1 sets the carrier leakage Q value to 0.1%.  
RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:QVALUE? returns the carrier leakage Q value.

## RFXPress:RADAR:IQImpairment:CARRleakage:TURNon

Sets or returns the “Turn On” status of carrier leakage.

**Group** Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQImpairment:CARRleakage:TURNon  
{<NR1>|OFF|ON}  
RFXPress:RADAR:IQImpairment:CARRleakage:TURNon?



<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON 1 sets the carrier leakage status to On.</p> <p>RFXPRESS:RADAR:IQIMPAIRMENT:CARRLEAKAGE:TURNON? returns the carrier leakage status.</p>

## RFXPress:RADAR:IQIMpairment:HWSKew:CH1Val

Sets or returns the channel 1 hardware skew value.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	<pre>RFXPress:RADAR:IQIMpairment:HWSKew:CH1Val RFXPress:RADAR:IQIMpairment:HWSKew:CH1Val?</pre>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:IQIMpairment:HWSKew:TURNON</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL 100e-12 sets the hardware skew channel 1 skew value to 100 ps.</p> <p>RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH1VAL? returns the hardware skew channel 1 skew value.</p>

## RFXPress:RADAR:IQIMpairment:HWSKew:CH2Val

Sets or returns the channel 2 hardware skew value.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	<pre>RFXPress:RADAR:IQIMpairment:HWSKew:CH2Val RFXPress:RADAR:IQIMpairment:HWSKew:CH2Val?</pre>

**Related Commands**    [RFXPress:RADAR:IQImpairment:HWSKew:TURNon](#)

**Arguments**    Real

**Returns**    Real

**Examples**    RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL 100e-12 sets the hardware skew channel 2 skew value to 100 ps.  
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH2VAL? returns the hardware skew channel 2 skew value.

## RFXPress:RADAR:IQImpairment:HWSKew:CH3Val

Sets or returns the channel 3 hardware skew value.

**Group**    Radar: I/Q Impairments

**Syntax**    RFXPress:RADAR:IQImpairment:HWSKew:CH3Val  
RFXPress:RADAR:IQImpairment:HWSKew:CH3Val?

**Related Commands**    [RFXPress:RADAR:IQImpairment:HWSKew:TURNon](#)

**Arguments**    Real

**Returns**    Real

**Examples**    RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL 100e-12 sets the hardware skew channel 3 skew value to 100 ps.  
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH3VAL? returns the hardware skew channel 3 skew value.

## RFXPress:RADAR:IQImpairment:HWSKew:CH4Val

Sets or returns the channel 4 hardware skew value.

**Group**    Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQIMpairment:HWSKew:CH4Val  
RFXPress:RADAR:IQIMpairment:HWSKew:CH4Val?

**Related Commands** [RFXPress:RADAR:IQIMpairment:HWSKew:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL 100e-12 sets the hardware skew channel 4 skew value to 100 ps.  
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:CH4VAL? returns the hardware skew channel 4 skew value.

## RFXPress:RADAR:IQIMpairment:HWSKew:TURNon

Sets or returns the “Turn On” status of hardware skew.

**Group** Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQIMpairment:HWSKew:TURNon {<NR1>|OFF|ON}  
RFXPress:RADAR:IQIMpairment:HWSKew:TURNon?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON 1 sets the hardware skew status to On.  
RFXPRESS:RADAR:IQIMPAIRMENT:HWSKEW:TURNON? returns the hardware skew status.

## RFXPress:RADAR:IQIMpairment:IQIMbalance:IQIMbalance

Sets or returns the IQ imbalance value.

**Group** Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQImpairment:IQIMbalance:IQIMbalance  
RFXPress:RADAR:IQImpairment:IQIMbalance:IQIMbalance?

**Related Commands** [RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE 0.09 sets the IQ imbalance value to 0.09%.

RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:IQIMBALANCE? returns the IQ imbalance value.

## RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon

Sets or returns the “Turn On” status of IQ Imbalance.

**Group** Radar: I/Q Impairments

**Syntax** RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon  
{<NR1>|OFF|ON}  
RFXPress:RADAR:IQImpairment:IQIMbalance:TURNon?

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON 1 sets the IQ imbalance status to On.

RFXPRESS:RADAR:IQIMPAIRMENT:IQIMBALANCE:TURNON? returns the IQ imbalance status.

## RFXPress:RADAR:IQImpairment:IQSWap:TURNon

Sets or returns the “Turn On” status of IQ Swap.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	RFXPress:RADAR:IQIMpairment:IQSWap:TURNOn {<NR1> OFF ON} RFXPress:RADAR:IQIMpairment:IQSWap:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON 1 sets the IQ Swap status to On.  RFXPRESS:RADAR:IQIMPAIRMENT:IQSWAP:TURNON? returns the IQ Swap status.

## RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes

Sets or returns the quadrature error degrees value.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes RFXPress:RADAR:IQIMpairment:QUADerror:DEGREes?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:IQIMpairment:QUADerror:TURNOn</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES 0.09 sets the quadrature error to 0.09 degrees.  RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:DEGREES? returns the quadrature error value.

## RFXPress:RADAR:IQIMpairment:QUADerror:TURNOn

Sets or returns the “Turn On” status of quadrature error.

<b>Group</b>	Radar: I/Q Impairments
<b>Syntax</b>	RFXPress:RADAR:IQImpairment:QUADerror:TURNOn {<NR1> OFF ON} RFXPress:RADAR:IQImpairment:QUADerror:TURNOn?
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON 1 sets the quadrature error status to On.  RFXPRESS:RADAR:IQIMPAIRMENT:QUADERROR:TURNON? returns the quadrature error status.

## RFXPress:RADAR:PULSe:ANTEнна:BEAM:FILE

Sets or returns the custom antenna beam type file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to “User Defined” before using this command.

<b>Group</b>	Radar: Antenna scanning
<b>Syntax</b>	RFXPress:RADAR:PULSe:ANTEнна:BEAM:FILE RFXPress:RADAR:PULSe:ANTEнна:BEAM:FILE?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXpress:RADAR:PULSe:CLUTter:OFFSet</a> <a href="#">RFXPress:RADAR:PULSe:ANTEнна:BEAM:TYPE</a>
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE “C:\beamfile.txt” sets the custom antenna beam type file for the currently selected pulse.

RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:FILE? returns the custom antenna beam type file for the currently selected pulse.

## RFXPress:RADAR:PULSe:ANTENna:BEAM:TYPE

Sets or returns the type of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning before using this command.

**Group** Radar: Antenna scanning

**Syntax** RFXPress:RADAR:PULSe:ANTENna:BEAM:TYPE  
RFXPress:RADAR:PULSe:ANTENna:BEAM:TYPE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXpress:RADAR:PULSe:CLUTter:OFFSet](#)

**Arguments** String  
The string values are:  
Sinc  
Gaussian  
User Defined

**Returns** String  
The string values returned are:  
Sinc  
Gaussian  
User Defined

**Examples** RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE "Gaussian" sets the antenna beam type of the currently selected pulse to Gaussian.

RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:TYPE? returns the antenna beam type of the currently selected pulse.

## RFXPress:RADAR:PULSe:ANTenna:BEAM:WIDTh

Sets or returns the width of the antenna beam for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

**Group** Radar: Antenna scanning

**Syntax** RFXPress:RADAR:PULSe:ANTenna:BEAM:WIDTh  
RFXPress:RADAR:PULSe:ANTenna:BEAM:WIDTh?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXpress:RADAR:PULSe:CLUTter:OFFSet](#)  
[RFXPress:RADAR:PULSe:ANTenna:BEAM:TYPE](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH 90 sets the antenna beam width of the currently selected pulse to 90 degrees.  
  
RFXPRESS:RADAR:PULSE:ANTENNA:BEAM:WIDTH? returns the antenna beam width of the currently selected pulse.

## RFXPress:RADAR:PULSe:ANTenna:MRValue

Sets or returns the MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

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**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

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**Group** Radar: Antenna scanning



**Syntax** RFXPress:RADAR:PULSE:ANTENNA:MRAValue  
RFXPress:RADAR:PULSE:ANTENNA:MRAValue?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXpress:RADAR:PULSE:CLUTter:OFFSet](#)  
[RFXPress:RADAR:PULSE:ANTENNA:BEAM:TYPE](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE 90 sets the antenna MRA of the currently selected pulse to 90 degrees.  
  
RFXPRESS:RADAR:PULSE:ANTENNA:MRAVALUE? returns the antenna MRA of the currently selected pulse.

## RFXPress:RADAR:PULSE:ANTENNA:SCANrate

Sets or returns the scan rate of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table and turn on antenna scanning before using this command.

**Group** Radar: Antenna scanning

**Syntax** RFXPress:RADAR:PULSE:ANTENNA:SCANrate  
RFXPress:RADAR:PULSE:ANTENNA:SCANrate?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXpress:RADAR:PULSE:CLUTter:OFFSet](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE 60 sets the antenna scan rate of the currently selected pulse to 60 degrees.

RFXPRESS:RADAR:PULSE:ANTENNA:SCANRATE? returns the antenna scan rate of the currently selected pulse.

## RFXPress:RADAR:PULSe:ANTENna:TBEARing

Sets or returns the Target Bearing or MRA value of the antenna for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on antenna scanning and set the beam type to either “Sinc” or “Gaussian” before using this command.

**Group** Radar: Antenna scanning

**Syntax** RFXPress:RADAR:PULSe:ANTENna:TBEARing  
RFXPress:RADAR:PULSe:ANTENna:TBEARing?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXpress:RADAR:PULSe:CLUTter:OFFSet](#)  
[RFXPress:RADAR:PULSe:ANTENna:BEAM:TYPE](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING 90 sets the antenna target bearing of the currently selected pulse to 90 degrees.  
RFXPRESS:RADAR:PULSE:ANTENNA:TBEARING? returns the antenna target bearing of the currently selected pulse.

## RFXPress:RADAR:PULSe:ANTENna:TURNOn

Sets or returns the “Turn On” status of the antenna scanning for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Antenna scanning

**Syntax** RFXPress:RADAR:PULSe:ANTENna:TURNOn {<NR1>|OFF|ON}  
RFXPress:RADAR:PULSe:ANTENna:TURNOn?

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:ANTENNA:TURNON 1 sets the antenna scanning status for the currently selected pulse to On.</p> <p>RFXPRESS:RADAR:PULSE:ANTENNA:TURNON? returns the antenna scanning status for the currently selected pulse.</p>

## RFXpress:RADAR:PULSe:CLUTter:DURation:VALue

Sets or returns the duration of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Clutter
<b>Syntax</b>	<pre>RFXpress:RADAR:PULSe:CLUTter:DURation:VALue RFXpress:RADAR:PULSe:CLUTter:DURation:VALue?</pre>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:CLUTTER:DURATION:VALUE 1e-6 sets the clutter duration of the currently selected pulse to 1 <math>\mu</math>s.</p> <p>RFXPRESS:RADAR:PULSE:CLUTTER:DURATION:VALUE? returns the clutter duration for the currently selected pulse.</p>

## RFXpress:RADAR:PULSe:CLUTter:GAUSSian:BW

Sets or returns the Gaussian bandwidth of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command and set the power spectral density to Gaussian.

<b>Group</b>	Radar: Clutter
<b>Syntax</b>	RFXpress:RADAR:PULSE:CLUTter:GAUSSian:BW RFXpress:RADAR:PULSE:CLUTter:GAUSSian:BW?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXpress:RADAR:PULSe:CLUTter:OFFSet</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:CLUTTER:GAUSSIAN:BW 0.5 sets the clutter Gaussian bandwidth of the power spectral density of the currently selected pulse to 0.5.  RFXPRESS:RADAR:PULSE:CLUTTER:GAUSSIAN:BW? returns the clutter Gaussian bandwidth of the power spectral density for the currently selected pulse.

## RFXpress:RADAR:PULSe:CLUTter:OFFSet

Sets or returns the frequency offset of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Clutter
<b>Syntax</b>	RFXpress:RADAR:PULSe:CLUTter:OFFSet RFXpress:RADAR:PULSe:CLUTter:OFFSet?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:CLUTTER:OFFSET 1e6 sets the clutter frequency offset of the currently selected pulse to 1 MHz.

RFXPRESS:RADAR:PULSE:CLUTTER:OFFSET? returns the clutter frequency offset for the currently selected pulse.

## RFXpress:RADAR:PULSE:CLUTter:PSD:VALUe

Sets or returns the power spectral density of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Clutter

**Syntax** RFXpress:RADAR:PULSE:CLUTter:PSD:VALUe  
RFXpress:RADAR:PULSE:CLUTter:PSD:VALUe?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String  
The string values are:  
None  
Gaussian

**Returns** String  
The string values returned are:  
None  
Gaussian

**Examples** RFXPRESS:RADAR:PULSE:CLUTTER:PSD:VALUe "Gaussian" sets the clutter power spectral density of the currently selected pulse to Gaussian.  
RFXPRESS:RADAR:PULSE:CLUTTER:PSD:VALUe? returns the clutter power spectral density for the currently selected pulse.

## RFXPress:RADAR:PULSE:CLUTter:SCR:VALUe

Sets or returns the signal to clutter ratio for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Clutter

**Syntax** RFXPress:RADAr:PULSe:CLUTter:SCR:VALue  
RFXPress:RADAr:PULSe:CLUTter:SCR:VALue?

**Related Commands** [RFXPress:RADAr:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:CLUTTER:SCR:VALUE 20 sets the signal to clutter ratio of the currently selected pulse to 20 dB.

RFXPRESS:RADAR:PULSE:CLUTTER:SCR:VALUE? returns the signal to clutter ratio for the currently selected pulse.

## RFXpress:RADAr:PULSe:CLUTter:STIME:VALue

Sets or returns the starting time of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Clutter

**Syntax** RFXpress:RADAr:PULSe:CLUTter:STIME:VALue  
RFXpress:RADAr:PULSe:CLUTter:STIME:VALue?

**Related Commands** [RFXPress:RADAr:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:CLUTTER:STIME:VALUE 1e-6 sets the clutter start time of the currently selected pulse to 1  $\mu$ s.

RFXPRESS:RADAR:PULSE:CLUTTER:STIME:VALUE? returns the clutter start time for the currently selected pulse.

## RFXPress:RADAr:PULSe:CLUTter:TURNOn

Sets or returns the “Turn On” status of clutter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Clutter

**Syntax** RFXPress:RADAr:PULSe:CLUTter:TURNOn {<NR1>|OFF|ON}  
RFXPress:RADAr:PULSe:CLUTter:TURNOn?

**Related Commands** [RFXPress:RADAr:PULTrain:SELEct](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:PULSE:CLUTTER:TURNON 1 adds clutter to the signal for the currently selected pulse.

RFXPRESS:RADAR:PULSE:CLUTTER:TURNON? returns the clutter status for the currently selected pulse.

## RFXPress:RADAr:PULSe:HOPPing:ADDHop (No Query Form)

Adds a new hop to the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on hopping before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAr:PULSe:HOPPing:ADDHop

**Related Commands** [RFXPress:RADAr:PULTrain:SELEct](#)  
[RFXPress:RADAr:PULSe:HOPPing:TURNOn](#)

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:ADDHOP adds a new hop to the hoping table for the currently selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:DELHop (No Query Form)

Deletes the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:DELHop

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)  
[RFXPress:RADAR:PULSe:HOPPing:SELHop](#)

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:DELHOP deletes the selected hop in the hopping table for the selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:ADDHop (No Query Form)

Adds a new frequency to the Avoid Frequency List for currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:ADDHop

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:ADDHOP adds a new hop to the hopping table for the currently selected pulse.



## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:DELHop (No Query Form)

Deletes the selected frequency from the Avoid Frequency List for currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:DELHop

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNOn](#)  
[RFXPress:RADAR:PULSe:HOPPing:SELHop](#)

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:DELHOP deletes the selected hop from the hoping table for the currently selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:OFFSet

Sets or returns the offset of the selected frequency in the Avoid Frequency List for currently selected pulse. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:OFFSet  
RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:OFFSet?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNOn](#)  
[RFXPress:RADAR:PULSe:HOPPing:SELHop](#)

**Arguments** Real

**Returns** Real

- Examples**     `RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:OFFSET 10E06`  
 sets the offset of the selected hop in the hopping table to 10 MHz for the selected pulse.
- `RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:OFFSET ?`  
 returns the offset of the selected hop in the hopping table for the selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:SELHop

Sets or returns the index in the Avoid List table for currently selected pulse. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.

**Group**     Radar: Pulse hopping

**Syntax**     `RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:SELHop`  
`RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:AVOid:SELHop?`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNOn](#)

**Arguments**     Integer

**Returns**     Integer

- Examples**     `RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:SELHOP 1`  
 selects index 1 in the Avoid list table for the selected pulse.
- `RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:AVOID:SELHOP ?`  
 returns the selected index of the Avoid list table for the selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:CHSPacing

Sets or returns the channel spacing in hopping for the currently selected pulse group. This parameter can be accessed only when hopping is enabled for the pulse. This parameter can be set only when the hop pattern selected is “Pseudo-Random, Range” or “Pseudo-Random, Avoid List”.

**Group**     Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSE:HOPPING:HOPFrequency:CHSPACING  
RFXPress:RADAR:PULSE:HOPPING:HOPFrequency:CHSPACING?

**Related Commands** [RFXPress:RADAR:PULSE:HOPPING:TURNON](#)  
[RFXPress:RADAR:PULSE:HOPPING:PATTERN](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:CHSPACING 40e6 sets the channel spacing in hopping for the selected pulse to 40 MHz.

RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:CHSPACING ? returns the channel spacing in hopping for the selected pulse.

## RFXPress:RADAR:PULSE:HOPPING:HOPFrequency:MAXimum

Sets or returns the maximum pulse frequency for the pseudo random hopping for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and set the hop pattern to “Pseudo Random, Range” before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSE:HOPPING:HOPFrequency:MAXimum  
RFXPress:RADAR:PULSE:HOPPING:HOPFrequency:MAXimum?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSE:HOPPING:TURNON](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:MAXIMUM 1000000 sets the maximum pulse frequency for pseudo random hopping to 1 GHz.

`RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:MAXIMUM ?` returns the maximum pulse frequency for pseudo random hopping.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:MINimum

Sets or returns the minimum pulse frequency for the pseudo random hopping for the currently selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and set the hop pattern to “Pseudo Random, Range” before using this command.

**Group** Radar: Pulse hopping

**Syntax** `RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:MINimum`  
`RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:MINimum?`

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:MINIMUM 1000000` sets the minimum pulse frequency for pseudo random hopping to 1 GHz.  
`RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:MINIMUM ?` returns the minimum pulse frequency for pseudo random hopping.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS

Sets or returns the PRBS type in hopping for the currently selected pulse. This parameter can be accessed only when hopping is enabled for the pulse. This parameter can be set only when the hop pattern selected is “Pseudo-Random,Range” or “Pseudo-Random,Avoid List”.

**Group** Radar: Pulse hopping

**Syntax** `RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS`  
`RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)

**Arguments**    String  
The string values are:  
7  
9  
15  
16  
20  
21  
23  
User-defined

**Returns**    String  
The string values returned are:  
7  
9  
15  
16  
20  
21  
23  
User-defined

**Examples**    RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS "7" sets the PRBS type in the hopping to PRBS 7 for the currently selected pulse.  
RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS? returns the PRBS type in hopping for the currently selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:POLYnomial

Sets or returns the polynomial for user-defined PRBS in hopping for the currently selected pulse. This parameter can be accessed only when hopping is enabled for the pulse. This parameter can be set only when the hop pattern selected is “Pseudo-Random,Range” or “Pseudo-Random,Avoid List”.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:  
POLYnomial  
RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:  
POLYnomial?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNon](#)  
[RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS](#)

**Arguments** String

**Returns** String

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
POLYNOMIAL "X15+X14+1" sets the polynomial for user-defined PRBS in  
hopping to "X15+X14+1" for the currently selected pulse.  
  
RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
POLYNOMIAL? returns the polynomial for user-defined PRBS for the currently  
selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:HOPFrequency:PRBS:USRDefined:SRegister

Sets or returns the shift register value for user-defined PRBS in hopping for the currently selected pulse. This parameter can be accessed only when hopping is enabled for the selected pulse. This parameter can be set only when the hop pattern selected is “Pseudo-Random,Range” or “Pseudo-Random,Avoid List” and PRBS type is “User-defined”.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
SREGISTER  
RFXPress:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
SREGISTER?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSE:HOPPING:TURNOn](#)  
[RFXPress:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
SREGISTER"10" sets the shift register value for user-defined PRBS in hopping  
for the currently selected pulse.  
  
RFXPRESS:RADAR:PULSE:HOPPING:HOPFREQUENCY:PRBS:USRDEFINED:  
SREGISTER? returns the shift register value for user-defined PRBS for the  
currently selected pulse.

## RFXPress:RADAR:PULSE:HOPPING:HOPTIME:PULSECOUNT

Sets or returns the hopping count for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSE:HOPPING:HOPTIME:PULSECOUNT  
RFXPress:RADAR:PULSE:HOPPING:HOPTIME:PULSECOUNT?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Integer

**Returns** Integer

**Examples**    `RFXPRESS:RADAR:PULSE:HOPPING:HOPTIME:PULSECOUNT 2` sets the pulse per hop count to 2 for the currently selected pulse.

`RFXPRESS:RADAR:PULSE:HOPPING:HOPTIME:PULSECOUNT ?` returns the pulse per hop count for the currently selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:OFFSet

Sets or returns the frequency offset of the selected hop in the hopping table for the currently selected pulse group. Select a pulse group in the pulse train table, Turn On pulse hopping, and select a valid hop in the hopping table before using this command.

**Group**        Radar: Pulse hopping

**Syntax**        `RFXPress:RADAR:PULSe:HOPPing:OFFSet`  
`RFXPress:RADAR:PULSe:HOPPing:OFFSet?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNOn](#)  
[RFXPress:RADAR:PULSe:HOPPing:SELHop](#)

**Arguments**    Real

**Returns**        Real

**Examples**        `RFXPRESS:RADAR:PULSE:HOPPING:OFFSET 10E06` sets the frequency offset of the currently selected hop in the hopping table to 10 MHz.

`RFXPRESS:RADAR:PULSE:HOPPING:OFFSET?` returns the frequency offset of the currently selected hop in the hopping table.

## RFXPress:RADAR:PULSe:HOPPing:PATtern

Sets or returns the hopping pattern for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group**        Radar: Pulse hopping



**Syntax** RFXPress:RADAR:PULSE:HOPPING:PATTERN  
RFXPress:RADAR:PULSE:HOPPING:PATTERN?

### Related Commands

**Arguments** String  
The string values are:  
Custom Table  
Pseudo-Random, Range  
Pseudo-Random, Avoid List

**Returns** String  
The string values returned are:  
Custom Table  
Pseudo-Random, Range  
Pseudo-Random, Avoid List

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:PATTERN "Custom Table" sets the hopping pattern to "Custom Table".  
RFXPRESS:RADAR:PULSE:HOPPING:PATTERN ? returns the hopping pattern of the currently selected pulse.

## RFXPress:RADAR:PULSE:HOPPING:RELAmplitude

Sets or returns the relative amplitude of the currently selected hop in the hopping table for the selected pulse group. Select a pulse group in the pulse train table, turn on pulse hopping, and select a valid hop in the hopping table before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSE:HOPPING:RELAmplitude  
RFXPress:RADAR:PULSE:HOPPING:RELAmplitude?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSE:HOPPING:TURNOn](#)

[RFXPress:RADAR:PULSe:HOPPIng:SELHop](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE -10 sets the relative amplitude of the currently selected hop in the hopping table to -10 dB.

RFXPRESS:RADAR:PULSE:HOPPING:RELAMPLITUDE? returns the relative amplitude of the currently selected hop in the hopping table.

## RFXPress:RADAR:PULSe:HOPPIng:REPEat

Sets or returns the repeat status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse hopping before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPIng:REPEat {<NR1>|OFF|ON}  
RFXPress:RADAR:PULSe:HOPPIng:REPEat?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:HOPPIng:TURNon](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:REPEAT 1 sets the repeat status of pulse hopping for the currently selected pulse to ON.

RFXPRESS:RADAR:PULSE:HOPPING:REPEAT? returns the repeat status of pulse hopping for the currently selected pulse.

## RFXPress:RADAR:PULSe:HOPPing:SELHop

Sets or returns the hop with the specified index in the hopping table for the currently selected pulse. Select a pulse group in the pulse train table and turn on hopping before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:SELHop  
RFXPress:RADAR:PULSe:HOPPing:SELHop?

**Related Commands** [RFXPress:RADAR:PULSe:HOPPing:SELHop](#)  
[RFXPress:RADAR:PULSe:HOPPing:TURNOn](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:SELHOP 1 sets a path with the index 1 in the hopping table.  
RFXPRESS:RADAR:PULSE:HOPPING:SELHOP? returns the index for a selected path in the hopping table.

## RFXPress:RADAR:PULSe:HOPPing:TURNOn

Sets or returns the “Turn On” status of the pulse hopping for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse hopping

**Syntax** RFXPress:RADAR:PULSe:HOPPing:TURNOn {<NR1>|OFF|ON}  
RFXPress:RADAR:PULSe:HOPPing:TURNOn?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:PULSE:HOPPING:TURNON 1 sets the status of pulse hopping for the currently selected pulse to On.

RFXPRESS:RADAR:PULSE:HOPPING:TURNON? returns the status of pulse hopping for the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp

Sets or returns the pulse impairments amplitude deviation droop value for the currently selected pulse. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

**Group** Radar: Pulse impairments

**Syntax** RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp  
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:DROOp?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:PENvelope:SHAPE](#)  
[RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNOn](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP -10 set the pulse impairments amplitude deviation value of the currently selected pulse to -10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:DROOP? get the pulse impairments amplitude deviation value of the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:OVShoot

Sets or returns the pulse impairments amplitude deviation overshoot value for the currently selected pulse group. Select a pulse group in the pulse train table and

"Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

**Group** Radar: Pulse impairments

**Syntax** RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:OVSHoot  
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:OVSHoot?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:PENVelope:SHApe](#)  
[RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:TURNOn](#)

**Arguments** real

**Returns** real

**Examples** RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT -10  
set the pulse impairments amplitude deviation overshoot value of the currently selected pulse to 10%.

RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:OVSHOOT? get the pulse impairments amplitude overshoot deviation value of the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:RIPFrequency

Sets or returns the width of the pulse impairments amplitude deviation ripple frequency value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

**Group** Radar: Pulse impairments

**Syntax** RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:RIPFrequency  
RFXPress:RADAR:PULSe:IMPAirments:AMPDeviAtion:RIPFrequency?

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:PENVelope:SHApe</a> <a href="#">RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNon</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY 10E06 set the pulse impairments amplitude deviation ripple frequency value of the currently selected pulse to 10 MHz.</p> <p>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPFREQUENCY? get the pulse impairments amplitude deviation ripple frequency value of the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPValue

Sets or returns the width of the pulse impairments amplitude deviation ripple value for the currently selected pulse group. Select a pulse group in the pulse train table and "Turn On" pulse impairments amplitude deviation before using this command. Set the pulse envelope shape of the selected pulse to anything other than "Saw Tooth" or "Custom".

<b>Group</b>	Radar: Pulse impairments
<b>Syntax</b>	<pre>RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPValue RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:RIPValue?</pre>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:PENVelope:SHApe</a> <a href="#">RFXPress:RADAR:PULSe:IMPAirments:AMPDeviation:TURNon</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

- Examples** `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE 10` set the pulse impairments amplitude deviation ripple value of the currently selected pulse to 10%.
- `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:RIPVALUE?` get the pulse impairments amplitude deviation ripple value of the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:AMPDeviatiOn:TURNOn

Sets or returns the “Turn On” status of the pulse impairments amplitude deviation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

**Group** Radar: Pulse impairments

**Syntax** `RFXPress:RADAR:PULSe:IMPAirments:AMPDeviatiOn:TURNOn`  
`{<NR1>|OFF|ON}`  
`RFXPress:RADAR:PULSe:IMPAirments:AMPDeviatiOn:TURNOn?`

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:PENVelope:SHAPE](#)

**Arguments** Boolean

**Returns** Boolean

- Examples** `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON 1` sets the status of pulse impairments amplitude deviation for the currently selected pulse to On.
- `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:AMPDEVIATION:TURNON?` returns the status of pulse impairments amplitude deviation for the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:JITTer:EDGEtype

Sets or returns the type of the pulse impairments jitter edge type for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on the pulse impairments jitter before using this command.

<b>Group</b>	Radar: Pulse impairments
<b>Syntax</b>	RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGEtype RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGEtype?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON</a> <a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	String The string values are: None Gaussian Uniform
<b>Returns</b>	String The string values returned are: None Gaussian Uniform
<b>Examples</b>	RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGETYPE "Gaussian" sets the pulse impairments jitter edge type of the currently selected pulse to "Gaussian".  RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGETYPE? returns the pulse impairments jitter edge type of the currently selected pulse.

## RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION

Sets or returns the width of the pulse impairments jitter edge deviation for the currently selected pulse. Select a pulse group in the pulse train table before using this command. Turn on pulse impairments jitter and set the pulse impairments jitter edge type to either "Uniform" or "Gaussian" before using this command.

**Group** Radar: Pulse impairments



<b>Syntax</b>	<code>RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION</code> <code>RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION?</code>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:EDGEType</a> <a href="#">RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON</a> <a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<code>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION 100e-06</code> sets the pulse impairments jitter edge deviation of the currently selected pulse to 100 $\mu$ s. <code>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:EGDEVIATION?</code> returns the pulse impairments jitter edge deviation of the currently selected pulse.

## RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON

Sets or returns the “Turn On” status of the pulse impairments jitter for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Pulse impairments
<b>Syntax</b>	<code>RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON</code> <code>{&lt;NR1&gt;   OFF   ON}</code> <code>RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON?</code>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<code>RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON 1</code> sets the status of pulse impairments jitter for the currently selected pulse to On.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNON?` returns the status of pulse impairments jitter for the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDEviation

Sets or returns the pulse impairments jitter width deviation for the currently selected pulse group. Select a pulse group in the pulse train table and turn on jitter impairments before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”. Set the pulse impairments jitter width type to either “Uniform” or “Gaussian”.

**Group** Radar: Pulse impairments

**Syntax** `RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDEviation`  
`RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDEviation?`

**Related Commands** [RFXPress:RADAR:PULSe:IMPAirments:JITTer:TURNon](#)  
[RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION 100e-06` sets the pulse impairments jitter width deviation of the currently selected pulse to 100  $\mu$ s.

`RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDEVIATION?` returns the pulse impairments jitter width deviation of the currently selected pulse.

## RFXPress:RADAR:PULSe:IMPAirments:JITTer:WIDThtype

Sets or returns the pulse impairments jitter width type for the currently selected pulse group. Select a pulse group in the pulse train table and turn on pulse impairments jitter before using this command. Set the pulse envelope shape of the selected pulse to anything other than “Saw Tooth” or “Custom”.

**Group** Radar: Pulse impairments

**Syntax** RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHtype  
RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHtype?

**Related Commands** [RFXPress:RADAR:PULSE:IMPAIRMENTS:JITTER:TURNOn](#)  
[RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String  
The string values are:  
None  
Gaussian  
Uniform

**Returns** String  
The string values returned are:  
None  
Gaussian  
Uniform

**Examples** RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHTYPE "Gaussian"  
sets the pulse impairments jitter width type of the currently selected pulse to "Gaussian".  
RFXPRESS:RADAR:PULSE:IMPAIRMENTS:JITTER:WIDTHTYPE? returns the pulse impairments jitter width type of the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION

Sets or returns the modulation for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSE:MODULATION  
RFXPress:RADAR:PULSE:MODULATION?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String

The string values are:

- “No Modulation”
- “Linear Frequency Modulation”
- “Biphase Coded Pulse - Barker”
- “Polyphase Codes”
- “User Defined Step PM AM”
- “Step Frequency Modulation”
- “Non Linear FM”
- “User Defined Step FM AM”
- “Custom Modulation”
- “Up-Down Chirp Modulation”
- “Frank Code”
- “P1-Polyphase Code”
- “P2-Polyphase Code”
- “P3-Polyphase Code”
- “P4-Polyphase Code”
- “QPSK”
- “BPSK”

**Returns** String

The string values returned are:

- “No Modulation”
- “Linear Frequency Modulation”
- “Biphase Coded Pulse - Barker”
- “Polyphase Codes”
- “User Defined Step PM AM”
- “Step Frequency Modulation”
- “Non Linear FM”
- “User Defined Step FM AM”
- “Custom Modulation”

“Up-Down Chirp Modulation”

“Frank Code”

“P1-Polyphase Code”

“P2-Polyphase Code”

“P3-Polyphase Code”

“P4-Polyphase Code”

“QPSK”

“BPSK”

**Examples** `RFXPRESS:RADAR:PULSE:MODULATION "Step Frequency Modulation"` sets the modulation for the currently selected pulse to "Step Frequency Modulation".

`RFXPRESS:RADAR:PULSE:MODULATION?` returns the modulation for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:BCPBarker:CODE

Sets or returns the barker code in the Biphase Coded Pulse modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Biphase Coded Pulse modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** `RFXPress:RADAR:PULSe:MODUlation:BCPBarker:CODE`  
`RFXPress:RADAR:PULSe:MODUlation:BCPBarker:CODE?`

### Related Commands

**Arguments** String

The string values are:

“2”

“3”

“4”

“5”

“7”

“11”

“13”

**Returns** string

The string values returned are:

“2”

“3”

“4”

“5”

“7”

“11”

“13”

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE "2" sets the barker code for the currently selected pulse to "2".

RFXPRESS:RADAR:PULSE:MODULATION:BCPBARKER:CODE? returns the pulse for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:CUSTom:FNAME

Sets or returns the file name in the custom modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to custom modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:CUSTom:FNAME  
RFXPress:RADAR:PULSe:MODUlation:CUSTom:FNAME?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** string

**Returns** string

**Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME "C:\Hello"` sets the file name in custom modulation for the currently selected pulse to "C:\Hello".

`RFXPRESS:RADAR:PULSE:MODULATION:CUSTOM:FNAME?` returns the file name in custom modulation for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:FRANK:CODElength

Sets or returns the code length in the Frank Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Frank Code modulation before using this command.

**Group**     Radar: Pulse modulation

**Syntax**     `RFXPress:RADAR:PULSe:MODUlation:FRANK:CODElength`  
`RFXPress:RADAR:PULSe:MODUlation:FRANK:CODElength?`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**     Integer

**Returns**     Integer

**Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH 9` sets the code length for the currently selected pulse to 9.

`RFXPRESS:RADAR:PULSE:MODULATION:FRANK:CODELENGTH?` returns the code length for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep

Sets or returns the frequency sweep in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

**Group**     Radar: Pulse modulation

**Syntax**     `RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep`  
`RFXPress:RADAR:PULSe:MODUlation:LFM:FRQSweep?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**    String  
 The string values are:  
 “Low to High”  
 “High to Low”

**Returns**    String  
 The string values returned are:  
 “Low to High”  
 “High to Low”

**Examples**    RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEEP "High to Low"  
 sets the frequency sweep for the linear frequency modulation of the currently selected pulse to "High to Low".  
 RFXPRESS:RADAR:PULSE:MODULATION:LFM:FRQSWEEP? returns the of pulse for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:LFM:SWPRange

Sets or returns the sweep range in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to linear frequency before using this command.

**Group**    Radar: Pulse modulation

**Syntax**    RFXPress:RADAR:PULSe:MODUlation:LFM:SWPRange  
 RFXPress:RADAR:PULSe:MODUlation:LFM:SWPRange?

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**    Real



**Returns**    real

**Examples**    RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE 12e6 sets the sweep range for the linear frequency modulation for the currently selected pulse to 12 MHz.

RFXPRESS:RADAR:PULSE:MODULATION:LFM:SWPRANGE? returns the pulse for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:NLFM:ADD (No Query Form)

Adds 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

**Group**        Radar: Pulse modulation

**Syntax**       RFXPress:RADAR:PULSe:MODUlation:NLFM:ADD

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Examples**       RFXPRESS:RADAR:PULSE:MODULATION:NLFM:ADD adds Non Linear FM order for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient

Sets or returns the coefficient for the selected order in the linear frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

**Group**        Radar: Pulse modulation

**Syntax**       RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient  
RFXPress:RADAR:PULSe:MODUlation:NLFM:COEFFicient?

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

[RFXPress:RADAR:PULSE:MODULATION:NLFM:SELOrder](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT 2e-10 sets the coefficient for the selected order in linear frequency modulation for the currently selected pulse to 20 ns.

RFXPRESS:RADAR:PULSE:MODULATION:NLFM:COEFFICIENT? returns the coefficient for the selected order in linear frequency modulation for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:NLFM:DELN (No Query Form)

Deletes 'n' order in the Non Linear FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSE:MODULATION:NLFM:DELN

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSE:MODULATION](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:NLFM:DELN 2 deletes the second order in nonlinear FM for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder

Sets or returns the currently selected order in the Non Linear FM for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Non Linear FM modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder  
RFXPress:RADAR:PULSe:MODUlation:NLFM:SELOrder?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELORDER 2 sets the selected order for the currently selected pulse to 2.  
RFXPRESS:RADAR:PULSE:MODULATION:NLFM:SELORDER? returns the selected order for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength

Sets or returns the code length in the P1-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P1-Polyphase Code modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength  
RFXPress:RADAR:PULSe:MODUlation:P1COde:CODElength?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P1CODE:CODELENGTH? returns the code length for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength

Sets or returns the code length in the P2-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P2-Polyphase Code modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength  
RFXPress:RADAR:PULSe:MODUlation:P2COde:CODElength?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.

RFXPRESS:RADAR:PULSE:MODULATION:P2CODE:CODELENGTH? returns the code length for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:P3COde:CODElength

Sets or returns the code length in the P3-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P3-Polyphase Code modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH RFXPress:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH 9 sets the code length for the currently selected pulse to 9.  RFXPRESS:RADAR:PULSE:MODULATION:P3CODE:CODELENGTH? returns the code length for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH

Sets or returns the code length in the P4-Polyphase Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to P4-Polyphase Code modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH RFXPress:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer

- Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH 9` sets the code length for the currently selected pulse to 9.
- `RFXPRESS:RADAR:PULSE:MODULATION:P4CODE:CODELENGTH?` returns the code length for the currently selected pulse.

## **RFXPress:RADAR:PULSe:MODUlation:PLPCodes:INIOffset**

Sets or returns the initial offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

**Group**         Radar: Pulse modulation

**Syntax**        `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:INIOffset`  
                   `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:INIOffset?`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)  
                               [RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**     Real

**Returns**        Real

- Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET 60` sets the initial offset for the currently selected pulse to 60 degrees.
- `RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:INIOFFSET?` returns the initial offset for the currently selected pulse.

## **RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset**

Sets or returns the phase offset in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

**Group**         Radar: Pulse modulation

**Syntax**        `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset`  
                   `RFXPress:RADAR:PULSe:MODUlation:PLPCodes:PHSOffset?`

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET 23 sets the phase offset for the currently selected pulse to 23 degrees.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:PHSOFFSET? returns the phase offset for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS

Sets or returns the number of steps in the polyphase code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Polyphase modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS RFXPress:RADAR:PULSe:MODUlation:PLPCodes:STEPS?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS 8 sets the number of steps for the currently selected pulse to 8.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:PLPCODES:STEPS? returns the number of steps for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MODUlation:QPSK:SAME

Sets or returns the status of “Same symbols for all pulses” for the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:QPSK:SAME {<NR1>|OFF|ON}  
RFXPress:RADAR:PULSe:MODUlation:QPSK:SAME?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME 1 sets the “Same symbols for all pulses” status for the currently selected pulse group to ON.  
RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SAME? returns the “Same symbols for all pulses” status for the currently selected pulse group.

## RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols

Sets or returns the number of symbols in the QPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to QPSK modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols  
RFXPress:RADAR:PULSe:MODUlation:QPSK:SYMBols?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)



<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	<p><code>RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS 25</code> sets the number of symbols for the currently selected pulse to 25.</p> <p><code>RFXPRESS:RADAR:PULSE:MODULATION:QPSK:SYMBOLS?</code> returns the number of symbols for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep

Sets or returns the initial step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	<p><code>RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep</code>  <code>RFXPress:RADAR:PULSe:MODUlation:SFM:INIStep?</code></p>
<b>Related Commands</b>	<p><a href="#">RFXPress:RADAR:PULTrain:SELEct</a>  <a href="#">RFXPress:RADAR:PULSe:MODUlation</a></p>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p><code>RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP 12e6</code> sets the initial step size for the currently selected pulse to 12 MHz.</p> <p><code>RFXPRESS:RADAR:PULSE:MODULATION:SFM:INISTEP?</code> returns the initial step size for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MODUlation:SFM:STEPS

Sets or returns the number of steps in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:SFM:STEPS RFXPress:RADAR:PULSE:MODULATION:SFM:STEPS?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS 7 sets the number of steps for the currently selected pulse to 7.  RFXPRESS:RADAR:PULSE:MODULATION:SFM:STEPS? returns the number of steps for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:SFM:STPSize

Sets or returns the step size in the step frequency modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Step Frequency modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:SFM:STPSize RFXPress:RADAR:PULSE:MODULATION:SFM:STPSize?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

**Examples** `RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE 100e6` sets the step size for the currently selected pulse to 100 MHz.

`RFXPRESS:RADAR:PULSE:MODULATION:SFM:STPSIZE?` returns the step size for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:UPDN:INVERT

Sets or returns the status of Invert for the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** `RFXPress:RADAR:PULSe:MODUlation:UPDN:INVERT`  
`RFXPress:RADAR:PULSe:MODUlation:UPDN:INVERT?`

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** `RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT 1` sets the invert status for the currently selected pulse to ON.

`RFXPRESS:RADAR:PULSE:MODULATION:UPDN:INVERT?` returns the invert status for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDowns

Sets or returns the number of up-downs in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** `RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDowns`  
`RFXPress:RADAR:PULSe:MODUlation:UPDN:UPDowns?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**    Integer

**Returns**    Integer

**Examples**    RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS 12 sets the number of up-downs for the currently selected pulse to 12.  
RFXPRESS:RADAR:PULSE:MODULATION:UPDN:UPDOWNS? returns the number of up-downs for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USDCodes:ADDN (No Query Form)

Adds ‘n’ user defined code steps in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

**Group**    Radar: Pulse modulation

**Syntax**    RFXPress:RADAR:PULSe:MODUlation:USDCodes:ADDN

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments**    Integer

**Returns**    Integer

**Examples**    RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:ADDN6 adds 6 user defined steps for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USDCodes:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:USDCodes:AMPLitude  
RFXPress:RADAR:PULSe:MODUlation:USDCodes:AMPLitude?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)  
[RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE -45 sets the amplitude for the currently selected pulse to -45 dB.  
RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:AMPLITUDE? returns the amplitude for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USDCodes:DELN (No Query Form)

Deletes 'n' user defined code step in the User-defined Code modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USDCodes:DELN
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DELN 2 deletes the second user defined step for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:USDCodes:DURATION

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USDCodes:DURATION RFXPress:RADAR:PULSE:MODULATION:USDCodes:DURATION?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION:USDCodes:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

- Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION 20` sets the duration for the selected step for the currently selected pulse to 20 ns.
- `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:DURATION?` returns the duration for the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USDCodes:PHASe

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

**Group**     Radar: Pulse modulation

**Syntax**     `RFXPress:RADAR:PULSe:MODUlation:USDCodes:PHASe`  
`RFXPress:RADAR:PULSe:MODUlation:USDCodes:PHASe?`

**Related Commands**     [RFXPress:RADAR:PULSe:MODUlation](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)  
[RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep](#)

**Arguments**     Real

**Returns**     Real

- Examples**     `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE 45` sets the phase for the selected step for the currently selected pulse to 45 degrees.
- `RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:PHASE?` returns the phase for the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USDCodes:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the

pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

---

**NOTE.** *This command has been deprecated; however, it is still supported for backward compatibility.*

---

<b>Group</b>	PROBABLY RFXpress
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USDCODES:SELSTEP RFXPress:RADAR:PULSE:MODULATION:USDCODES:SELSTEP?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP 2 sets the selected step for the currently selected pulse to 2.  RFXPRESS:RADAR:PULSE:MODULATION:USDCODES:SELSTEP? returns the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:USFM:ADDN (No Query Form)

Adds 'n' user defined steps in the User-defined Step FM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USFM:ADDN
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>



**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:USFM:ADDN 20 adds 20 user defined steps for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USFM:DELN (No Query Form)

Deletes 'n' user defined step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:USFM:DELN

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:USFM:DELN 2 deletes the second user defined step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USFM:DURAtion

Sets or returns the duration for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

**Group** Radar: Pulse modulation

<b>Syntax</b>	<code>RFXPress:RADAR:PULSE:MODULATION:USFM:DURATION</code> <code>RFXPress:RADAR:PULSE:MODULATION:USFM:DURATION?</code>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<code>RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION 20</code> sets the duration for the currently selected pulse to 20 ns.  <code>RFXPRESS:RADAR:PULSE:MODULATION:USFM:DURATION?</code> returns the duration for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USFM:FRQOffset

Sets or returns the frequency offset for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	<code>RFXPress:RADAR:PULSE:MODULATION:USFM:FRQoffset</code> <code>RFXPress:RADAR:PULSE:MODULATION:USFM:FRQoffset?</code>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real

- Examples** `RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET 30e6` sets the frequency offset for the currently selected pulse to 30 MHz.
- `RFXPRESS:RADAR:PULSE:MODULATION:USFM:FRQOFFSET?` returns the frequency offset for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep

Sets or returns the currently selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

**Group** Radar: Pulse modulation

**Syntax** `RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep`  
`RFXPress:RADAR:PULSe:MODUlation:USFM:SELStep?`

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

- Examples** `RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP 2` set the selected step for the currently selected pulse to 2.
- `RFXPRESS:RADAR:PULSE:MODULATION:USFM:SELSTEP?` returns the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USPM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

**Group** Radar: Pulse modulation

<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USPM:AMPLITUDE RFXPress:RADAR:PULSE:MODULATION:USPM:AMPLITUDE?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION:USPM:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE -45 sets the amplitude for the selected step for the currently selected pulse to -45 dB.  RFXPRESS:RADAR:PULSE:MODULATION:USPM:AMPLITUDE? returns the amplitude for the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:USPM:DELN (No Query Form)

Deletes 'n' user defined code step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USPM:DELN
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MODULATION</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:USPM:DELN 2 deletes second user defined step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USPM:DURAtion

Sets or returns the duration for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:USPM:DURation  
RFXPress:RADAR:PULSe:MODUlation:USPM:DURation?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)  
[RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep](#)

**Arguments** real

**Returns** real

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION 20 sets the duration for the selected step for the currently selected pulse to 20 ns.  
RFXPRESS:RADAR:PULSE:MODULATION:USPM:DURATION? returns the duration for the selected step for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe

Sets or returns the phase for the selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe  
RFXPress:RADAR:PULSe:MODUlation:USPM:PHASe?

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE 45 sets the phase for the selected step for the currently selected pulse to 45 degrees.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:USPM:PHASE? returns the phase for the selected step for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep

Sets or returns the currently selected step in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep RFXPress:RADAR:PULSe:MODUlation:USPM:SELStep?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP 2 sets the selected step for the currently selected pulse to 2.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:USPM:SELSTEP? returns the selected step for the currently selected pulse.</p>

## RFXPress:RADAR:PULSe:MULTipath:ADDPATH (No Query Form)

Adds a new path to the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. Turn on multipath before using this command.

**Group** Radar: Multipath

**Syntax** RFXPress:RADAR:PULSe:MULTipath:ADDPATH

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MULTipath:TURNOn](#)

**Examples** RFXPRESS:RADAR:PULSE:MULTIPATH:ADDPATH adds a new path to the multipath table for the currently selected pulse.

## RFXPress:RADAR:PULSe:MULTipath:AMPLitude

Sets or returns the level of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

**Group** Radar: Multipath

**Syntax** RFXPress:RADAR:PULSe:MULTipath:AMPLitude  
RFXPress:RADAR:PULSe:MULTipath:AMPLitude?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MULTipath:TURNOn](#)  
[RFXPress:RADAR:PULSe:MULTipath:SELPATH](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE -20 sets the level of the selected path in the multipath table to -20 dB.

RFXPRESS:RADAR:PULSE:MULTIPATH:AMPLITUDE? returns the level of the selected path in the multipath table.

## RFXPress:RADAR:PULSe:MULTipath:DELAy

Sets or returns the delay of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command. Select a path other than the default before setting the delay value.

<b>Group</b>	Radar: Multipath
<b>Syntax</b>	RFXPress:RADAR:PULSe:MULTipath:DELAy RFXPress:RADAR:PULSe:MULTipath:DELAy?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MULTipath:TURNon</a> <a href="#">RFXPress:RADAR:PULSe:MULTipath:SELPath</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MULTIPATH:DELAy 1 sets the delay of the selected path in the multipath table to 1 $\mu$ s.  RFXPRESS:RADAR:PULSE:MULTIPATH:DELAy? returns the delay of the selected path in the multipath table.

## RFXPress:RADAR:PULSe:MULTipath:DELPath (No Query Form)

Deletes the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

<b>Group</b>	Radar: Multipath
<b>Syntax</b>	RFXPress:RADAR:PULSe:MULTipath:DELPath



**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MULTipath:TURNon](#)  
[RFXPress:RADAR:PULSe:MULTipath:SELPath](#)

**Examples**    `RFXPRESS:RADAR:PULSE:MULTIPATH:DELPATH` deletes the selected path in the multipath table for the currently selected pulse.

## RFXPress:RADAR:PULSe:MULTipath:PHASe

Sets or returns the phase of the selected path in the multipath table for the currently selected pulse group. Select a pulse group in the pulse train table and turn on multipath before using this command.

**Group**    Radar: Multipath

**Syntax**    `RFXPress:RADAR:PULSe:MULTipath:PHASe`  
`RFXPress:RADAR:PULSe:MULTipath:PHASe?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MULTipath:TURNon](#)  
[RFXPress:RADAR:PULSe:MULTipath:SELPath](#)

**Arguments**    Real

**Returns**    Real

**Examples**    `RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE 180` sets the phase of the selected path in the multipath table to 180 degrees.  
`RFXPRESS:RADAR:PULSE:MULTIPATH:PHASE?` returns the phase of the selected path in the multipath table.

## RFXPress:RADAR:PULSe:MULTipath:SELPath

Selects the path with the specified delay in the multipath table for the currently selected pulse. returns the delay of the selected path in the multipath table for the currently selected pulse. Select a pulse group in the pulse train table and turn on multipath before using this command.

<b>Group</b>	Radar: Multipath
<b>Syntax</b>	RFXPress:RADAR:PULSE:MULTipath:SELPath RFXPress:RADAR:PULSE:MULTipath:SELPath?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:MULTipath:TURNon</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH 1 selects a path with the specified delay (1 us) in the multipath table.  RFXPRESS:RADAR:PULSE:MULTIPATH:SELPATH? returns the selected path with the specified delay in the multipath table.

## RFXPress:RADAR:PULSE:MULTipath:TURNon

Sets or returns the “Turn On” status of the multipath for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Multipath
<b>Syntax</b>	RFXPress:RADAR:PULSE:MULTipath:TURNon {<NR1> OFF ON} RFXPress:RADAR:PULSE:MULTipath:TURNon?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON 1 sets the status of multipath for the currently selected pulse to On.

RFXPRESS:RADAR:PULSE:MULTIPATH:TURNON? returns the status of multipath for the currently selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:BBOffset

Sets or returns the pulse envelope baseband offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IQ.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSe:PENVELOpe:BBOffset  
RFXPress:RADAR:PULSe:PENVELOpe:BBOffset?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:COMPile:SIGFormat](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET 1000 sets the carrier offset value of the selected pulse to 1 KHz.

RFXPRESS:RADAR:PULSE:PENVELOPE:BBOFFSET? returns the carrier offset value of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:CAROffset

Sets or returns the pulse envelope carrier offset rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is applicable only if the signal format selected is IF/RF.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSe:PENVELOpe:CAROffset  
RFXPress:RADAR:PULSe:PENVELOpe:CAROffset?

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:COMPILE:SIGFormat</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET 1000 sets the carrier offset value of the selected pulse to 1 KHz.</p> <p>RFXPRESS:RADAR:PULSE:PENVELOPE:CAROFFSET? returns the carrier offset value of the selected pulse.</p>

## RFXPress:RADAR:PULSe:PENVELOPE:CUSTomfile

Sets or returns the custom pulse envelope shape file for the currently selected pulse group. Select a pulse group in the pulse train table before using this command. This command is valid only if the pulse shape is set to Custom.

<b>Group</b>	Radar: Pulse envelope group
<b>Syntax</b>	RFXPress:RADAR:PULSe:PENVELOPE:CUSTomfile RFXPress:RADAR:PULSe:PENVELOPE:CUSTomfile?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:PENVELOPE:SHAPE</a>
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE "C:\file.txt" sets custom pulse shape file of the selected pulse.</p> <p>RFXPRESS:RADAR:PULSE:PENVELOPE:CUSTOMFILE? returns the custom pulse shape file of the selected pulse.</p>

## RFXPress:RADAR:PULSe:PENVELOpe:RELAmplitude

Sets or returns the pulse envelope relative amplitude value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSe:PENVELOpe:RELAmplitude  
RFXPress:RADAR:PULSe:PENVELOpe:RELAmplitude?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE -40 sets the relative amplitude value of the selected pulse to -40 dB.

RFXPRESS:RADAR:PULSE:PENVELOPE:RELAMPLITUDE? returns the relative amplitude value of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:REPEat

Sets and the pulse envelope repeat value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSe:PENVELOpe:REPEat  
RFXPress:RADAR:PULSe:PENVELOpe:REPEat?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples**     `RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT 5` sets the repeat value of the selected pulse to 5.

`RFXPRESS:RADAR:PULSE:PENVELOPE:REPEAT?` returns the repeat value of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:SAMPLerate

Sets or returns the pulse envelope sampling rate value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group**     Radar: Pulse envelope group

**Syntax**     `RFXPress:RADAR:PULSe:PENVELOpe:SAMPLerate`  
`RFXPress:RADAR:PULSe:PENVELOpe:SAMPLerate?`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments**     Real

**Returns**     Real

**Examples**     `RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE 1000` sets the sampling rate value of the selected pulse to 1 KHz.

`RFXPRESS:RADAR:PULSE:PENVELOPE:SAMPLERATE?` returns the sampling rate value of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:SHAPE

Sets or returns the pulse envelope shape of the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group**     Radar: Pulse envelope group

**Syntax**     `RFXPress:RADAR:PULSe:PENVELOpe:SHAPE`  
`RFXPress:RADAR:PULSe:PENVELOpe:SHAPE?`

**Related Commands**    [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments**    String

The string values are:

- Trapezoidal
- Raised Cosine
- Exponential
- Rectangular
- Saw Tooth
- Custom

**Returns**    String

The string values returned are:

- Trapezoidal
- Raised Cosine
- Exponential
- Rectangular
- Saw Tooth
- Custom

**Examples**    RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE "Exponential" sets the pulse shape of the selected pulse to Exponential.

RFXPRESS:RADAR:PULSE:PENVELOPE:SHAPE? returns the pulse shape of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOpe:TIME:FALL:PERCentage

Sets or returns the pulse envelope fall time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group**    Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE  
RFXPress:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String  
The string values are:  
Zero to Hundred  
Ten to Ninety  
Twenty to Eighty

**Returns** String  
The string values returned are:  
Zero to Hundred  
Ten to Ninety  
Twenty to Eighty

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE "Zero to Hundred" sets the fall time percentage value of the selected pulse to Zero to Hundred.  
RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:PERCENTAGE? returns the fall time percentage value of the selected pulse.

## RFXPress:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE

Sets or returns the pulse envelope fall time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE  
RFXPress:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)



<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE 0.1 sets the fall time value of the selected pulse to 100 ms.</p> <p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:FALL:VALUE? returns the fall time value of the selected pulse.</p>

## RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime

Sets or returns the pulse envelope off time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Pulse envelope group
<b>Syntax</b>	<pre>RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime RFXPress:RADAR:PULSe:PENVELOPE:TIME:OFFTime?</pre>
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME 0.2 sets the off time value of the selected pulse to 200 ms.</p> <p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:OFFTIME? returns the off time value of the selected pulse.</p>

## RFXPress:RADAR:PULSe:PENVELOPE:TIME:RISE:PERCentage

Sets or returns the pulse envelope rise time percentage for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

<b>Group</b>	Radar: Pulse envelope group
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**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE  
RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String  
The string values are:  
Zero to Hundred  
Ten to Ninety  
Twenty to Eighty

**Returns** String  
The string values returned are:  
Zero to Hundred  
Ten to Ninety  
Twenty to Eighty

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE "Zero to Hundred" sets the rise time percentage value of the selected pulse to Zero to Hundred.  
RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:PERCENTAGE? returns the rise time percentage value of the selected pulse.

## RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE

Sets or returns the pulse envelope rise time value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE  
RFXPress:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE 0.1 sets the rise time value of the selected pulse to 100 ms.</p> <p>RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:RISE:VALUE? returns the rise time value of the selected pulse.</p>

## RFXPress:RADAR:PULSe:PENVELOPE:TIME:STARTvalue

Sets or returns the pulse envelope start time value for the currently selected pulse group.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSe:PENVELOPE:TIME:STARTvalue  
RFXPress:RADAR:PULSe:PENVELOPE:TIME:STARTvalue?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE 0.2 sets the start time value of the selected pulse to 200 ms.

RFXPRESS:RADAR:PULSE:PENVELOPE:TIME:STARTVALUE? returns the start time value of the selected pulse.

## RFXPress:RADAR:PULSe:PENVELOPE:WIDTH:POWER

Sets or returns the pulse envelope width power for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:POWER  
RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:POWER?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** String  
The string values are:  
Fifty  
Hundred

**Returns** String  
The string values returned are:  
Fifty  
Hundred

**Examples** RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER "Hundred" sets the width power value of the selected pulse to "Hundred".  
RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:POWER? returns sets the width power value of the selected pulse.

## RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE

Sets or returns the pulse envelope width value for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.

**Group** Radar: Pulse envelope group

**Syntax** RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE  
RFXPress:RADAR:PULSE:PENVELOPE:WIDTH:VALUE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Real

**Returns** Real

- Examples**     `RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE 0.1` sets the width value of the selected pulse to 100 ms.
- `RFXPRESS:RADAR:PULSE:PENVELOPE:WIDTH:VALUE?` returns the width value of the selected pulse.

## RFXPress:RADAR:PULSe:STAGpri:ADDPri (No Query Form)

Adds a new PRI deviation to the PRI Deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command. The number of PRI deviations that can be added depends upon the pulse group's repeat value.

**Group**     Radar: Pulse Staggered PRI

**Syntax**     `RFXPress:RADAR:PULSe:STAGpri:ADDPri`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:STAGpri:TURNOn](#)  
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)

- Examples**     `RFXPRESS:RADAR:PULSE:STAGPRI:ADDPRI` adds a new PRI deviation to the PRI deviation table for the selected pulse.

## RFXPress:RADAR:PULSe:STAGpri:DELPri (No Query Form)

Deletes the selected index in the PRI deviation table for the currently selected pulse group. Select a pulse group in the pulse train table, turn ON the staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

**Group**     Radar: Pulse Staggered PRI

**Syntax**     `RFXPress:RADAR:PULSe:STAGpri:DELPri`

**Related Commands**     [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:STAGpri:TURNOn](#)  
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)

[RFXPress:RADAR:PULSe:STAGpri:SELPri](#)

**Examples** RFXPRESS:RADAR:PULSE:STAGPRI:DELPRI deletes the selected PRI deviation in the PRI deviation table for the selected pulse.

## RFXPress:RADAR:PULSe:STAGpri:DEVIation

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

**Group** Radar: Pulse Staggered PRI

**Syntax** RFXPress:RADAR:PULSe:STAGpri:DEVIation  
RFXPress:RADAR:PULSe:STAGpri:DEVIation?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:STAGpri:TURNon](#)  
[RFXPress:RADAR:PULSe:STAGpri:TYPE](#)  
[RFXPress:RADAR:PULSe:STAGpri:SELPri](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION 10e-3 sets the PRI deviation of the selected index to 10 ms.  
  
RFXPRESS:RADAR:PULSE:STAGPRI:DEVIATION? returns the index of the selected PRI deviation in the PRI deviation table.

## RFXPress:RADAR:PULSe:STAGpri:REPEat

Sets or returns the repeat status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table and turn on the staggered PRI type to “User Defined” before using this command.

<b>Group</b>	Radar: Pulse Staggered PRI
<b>Syntax</b>	RFXPress:RADAR:PULSe:STAGpri:REPEat {<NR1> OFF ON} RFXPress:RADAR:PULSe:STAGpri:REPEat?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:STAGpri:TURNon</a> <a href="#">RFXPress:RADAR:PULSe:STAGpri:TYPE</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT 1 sets the repeat status of pulse staggered PRI for the selected pulse to ON.  RFXPRESS:RADAR:PULSE:STAGPRI:REPEAT? returns the repeat status of pulse staggered PRI for the selected pulse.

## RFXPress:RADAR:PULSe:STAGpri:SELPri

Sets or returns the specified index of the PRI deviation in the PRI Deviation table for the currently selected pulse. Select a pulse group in the pulse train table, turn on staggered PRI, and set the staggered PRI type to “User Defined” before using this command.

<b>Group</b>	Radar: Pulse Staggered PRI
<b>Syntax</b>	RFXPress:RADAR:PULSe:STAGpri:SELPri RFXPress:RADAR:PULSe:STAGpri:SELPri?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:STAGpri:TURNon</a> <a href="#">RFXPress:RADAR:PULSe:STAGpri:TYPE</a>
<b>Arguments</b>	Integer

**Returns** Integer

**Examples** `RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI 1` sets PRI deviation with the index 1 in the PRI deviation table.

`RFXPRESS:RADAR:PULSE:STAGPRI:SELPRI?` returns the index for the selected PRI in the PRI deviation table.

## RFXPress:RADAr:PULSe:STAGpri:SLOPe

Sets or returns the slope of the staggered PRI ramp for the currently selected pulse group. Select a pulse group in the pulse train table, turn on the staggered PRI, and set the staggered PRI type to “Ramp” before using this command.

**Group** Radar: Pulse Staggered PRI

**Syntax** `RFXPress:RADAr:PULSe:STAGpri:SLOPe`  
`RFXPress:RADAr:PULSe:STAGpri:SLOPe?`

**Related Commands** [RFXPress:RADAr:PULTrain:SELEct](#)  
[RFXPress:RADAr:PULSe:STAGpri:TURNOn](#)  
[RFXPress:RADAr:PULSe:STAGpri:TYPE](#)

**Arguments** Real

**Returns** Real

**Examples** `RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE 90` sets the slope of the staggered PRI ramp for the currently selected pulse group to 90 degrees.

`RFXPRESS:RADAR:PULSE:STAGPRI:SLOPE?` returns the slope of the staggered PRI ramp for the currently selected pulse group.

## RFXPress:RADAr:PULSe:STAGpri:TURNOn

Sets or returns the "Turn On" status of the pulse staggered PRI for the currently selected pulse group. Select a pulse group in the pulse train table before using this command.



<b>Group</b>	Radar: Pulse Staggered PRI
<b>Syntax</b>	RFXPress:RADAR:PULSE:STAGpri:TURNOn {<NR1> OFF ON} RFXPress:RADAR:PULSE:STAGpri:TURNOn?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	RFXPRESS:RADAR:PULSE:STAGPRI:TURNON 1 sets the "Turn On" status of pulse staggered PRI for the currently selected pulse.  RFXPRESS:RADAR:PULSE:STAGPRI:TURNON? returns the "Turn On" status of pulse staggered PRI for the currently selected pulse.

## RFXPress:RADAR:PULSE:STAGpri:TYPE

Sets or returns the type of the staggered PRI for the currently selected pulse group. Select a valid pulse or dead-time in the pulse train table and turn on the staggered PRI before using this command.

<b>Group</b>	Radar: Pulse Staggered PRI
<b>Syntax</b>	RFXPress:RADAR:PULSE:STAGpri:TYPE RFXPress:RADAR:PULSE:STAGpri:TYPE?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSE:STAGpri:TURNOn</a>
<b>Arguments</b>	String  The string values are:  "Ramp"  "User Defined"
<b>Returns</b>	String

The string values returned are:

“Ramp”

“User Defined”

**Examples** RFXPRESS:RADAR:PULSE:STAGPRI:TYPE “User Defined” sets the type of the staggered PRI for the currently selected pulse group to “User Defined”.

RFXPRESS:RADAR:PULSE:STAGPRI:TYPE? returns the type of the staggered PRI for the currently selected pulse group.

## RFXPress:RADAR:PULTrain:ADDElement (No Query Form)

Adds a pulse or dead-time to the pulse train table. To add a pulse, use “PULSE”. To add a dead-time, use “DEAD TIME”.

**Group** Radar: Pulse train settings

**Syntax** RFXPress:RADAR:PULTrain:ADDElement

**Related Commands** [RFXPress:SELApp](#)

**Arguments** String

**Examples** RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “PULSE” adds a pulse to the pulse train table.

RFXPRESS:RADAR:PULTRAIN:ADDELEMENT “DEAD TIME” adds a dead time to the pulse train table.

## RFXPress:RADAR:PULTrain:ANCHor

Sets or returns the pulse as anchor pulse in pulse train table. The specified index must contain a pulse group in the pulse train table.

**Group** Radar: Pulse train settings

**Syntax** RFXPress:RADAR:PULTrain:ANCHor  
RFXPress:RADAR:PULTrain:ANCHor?

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<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:ADDElement</a> <a href="#">RFXPress:RADAR:PULTrain:INSElement</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer
<b>Examples</b>	RFXPRESS:RADAR:PULTRAIN:ANCHOR 2 sets the second index as the anchor pulse.

### RFXPress:RADAR:PULTrain:COUNT? (Query Only)

Returns the total count of all the pulse train elements present in the pulse train table. The returned value is the aggregate of all pulse and dead-time elements.

<b>Group</b>	Radar: Pulse train settings
<b>Syntax</b>	RFXPress:RADAR:PULTrain:COUNT?
<b>Returns</b>	Integer  The output is the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.
<b>Examples</b>	RFXPRESS:RADAR:PULTRAIN:COUNT? returns the total count of all the pulse train elements (pulse or dead-time) present in the pulse train table as integer.

### RFXPress:RADAR:PULTrain:DELEte (No Query Form)

Deletes the currently selected pulse or dead-time in the pulse train table. Select a pulse or dead-time in the pulse train table before using this command.

<b>Group</b>	Radar: Pulse train settings
<b>Syntax</b>	RFXPress:RADAR:PULTrain:DELEte
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a>

**Examples** RFXPRESS:RADAR:PULTRAIN:DELETE deletes the currently selected element in the pulse train table.

## RFXPress:RADAR:PULTrain:INSElement (No Query Form)

Inserts a new pulse or dead-time in the pulse train table.

**Group** Radar: Pulse train settings

**Syntax** RFXPress:RADAR:PULTrain:INSElement

**Related Commands** [RFXPress:RADAR:PULTrain:ADDElement](#)

**Arguments** String

**Examples** RFXPRESS:RADAR:PULTRAIN:INSELEMENT "PULSE" inserts a pulse to the pulse train table.

RFXPRESS:RADAR:PULTRAIN:INSELEMENT "DEAD TIME" inserts a dead time to the pulse train table.

## RFXPress:RADAR:PULTrain:SELEct

Selects the pulse or dead-time at the specified index. The query form returns the currently selected index in the pulse train table.

**Group** Radar: Pulse train settings

**Syntax** RFXPress:RADAR:PULTrain:SELEct  
RFXPress:RADAR:PULTrain:SELEct?

**Related Commands** [RFXPress:RADAR:PULTrain:ADDElement](#)  
[RFXPress:RADAR:PULTrain:INSElement](#)

**Arguments** Integer

**Returns** Integer

- Examples** `RFXPRESS:RADAR:PULTRAIN:SELECT 2` selects the second element (pulse or dead-time) from the pulse train table.
- `RFXPRESS:RADAR:PULTRAIN:SELECT?` returns the currently selected element (pulse or dead-time) from the pulse train table.

## RFXPress:RADAR:PULTrain:SELPulse:ADDItion:SELAll

Sets or returns the status of the pulse groups whether all the pulse groups are added together in time.

- Group** Radar: Add pulse group
- Syntax** `RFXPress:RADAR:PULTrain:SELPulse:ADDItion:SELAll`  
`{<NR1>|OFF|ON}`  
`RFXPress:RADAR:PULTrain:SELPulse:ADDItion:SELAll?`
- Arguments** Boolean
- Returns** Boolean
- Examples** `RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL 1` sets the pulse addition status of all the pulse groups.
- `RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:SELALL?` returns the pulse addition status of all the pulse groups.

## RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNOn

Sets or returns the status of the currently selected pulse group as to whether it will be added in time. Select a pulse group in the pulse train table before using this command.

- Group** Radar: Add pulse group
- Syntax** `RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNOn`  
`{<NR1>|OFF|ON}`  
`RFXPress:RADAR:PULTrain:SELPulse:ADDItion:TURNOn?`
- Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Arguments** Boolean

**Returns** Boolean

**Examples** RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON 1 sets the pulse addition status of the pulse at index 2 (the currently selected index) to On.  
RFXPRESS:RADAR:PULTRAIN:SELPULSE:ADDITION:TURNON? returns the pulse addition status of the pulse at index 2 (the currently selected index).

## RFXPress:RADAR:PULTrain:TYPE? (Query Only)

Returns the type of the currently selected pulse train element from the pulse train table. Select a valid pulse or dead-time in the pulse train table before using this command.

**Group** Radar: Pulse train settings

**Syntax** RFXPress:RADAR:PULTrain:TYPE?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)

**Returns** String  
The string values returned are:  
PULSE  
DEAD TIME

**Examples** RFXPRESS:RADAR:PULTRAIN:TYPE? returns the type of the currently selected element (pulse or dead-time) from the pulse train table.

## RFXPress:RFDFFile:LOAD (No Query Form)

Loads the waveform contained in the specified .rfd file in to the waveform list. The name of the loaded waveform will be same as the file name of the .rfd file. If the waveform list already contains a waveform with the same name, then this waveform will be overwritten with the loaded one.

**Group** Data file

**Syntax** RFXPress:RFDFile:LOAD

**Related Commands** [RFXPress:RFDFile:SAVE](#)  
[RFXPress:RFDFile:SELEct](#)

**Arguments** String

**Examples** RFXPRESS:RFDFILE:LOAD "E:\MyData.rfd" loads the waveform stored in "E:\MyData.rfd" in to the waveform list.

## RFXPress:RFDFile:SAVE (No Query Form)

Saves the currently selected waveform in the waveform list to a .rfd file. The waveform list must contain at least one waveform and only one waveform from the waveform list must be selected.

**Group** Data file

**Syntax** RFXPress:RFDFile:SAVE

**Related Commands** [RFXPress:RFDFile:LOAD](#)  
[RFXPress:RFDFile:SELEct](#)

**Arguments** String

**Examples** RFXPRESS:RFDFILE:SAVE "E:\MyData.rfd" saves the "Waveform1" from the waveform list to "E:\MyData.rfd".

## RFXPress:RFDFile:SELEct (No Query Form)

Selects the specified waveform in the waveform list. The waveform list must contain the specified waveform.

**Group** Data file

**Syntax** RFXPress:RFDFile:SELEct

**Related Commands**    [RFXPress:RFDFile:LOAD](#)  
[RFXPress:RFDFile:SAVE](#)

**Arguments**    String

**Examples**    RFXPRESS:RFDFILE:SELECT"waveform" selects "Waveform1" in the waveform list.

## RFXPress:RFSFile:LOAD (No Query Form)

Loads the specified .rfs file.

**Group**    File

**Syntax**    RFXPress:RFSFile:LOAD

**Related Commands**    [RFXPress:RFSFile:SAVE](#)

**Arguments**    String

**Examples**    RFXPRESS:RFSFILE:LOAD "E:\MySetup.rfs" loads the setup "E:\MySetup.rfs".

## RFXPress:RFSFile:SAVE (No Query Form)

Saves the currently selected plug-in information to an .rfs file. The plug-in to be saved must first be selected first.

**Group**    File

**Syntax**    RFXPress:RFSFile:SAVE

**Related Commands**    [RFXPress:RFSFile:LOAD](#)

**Arguments**    String



**Examples** RFXPRESS:RFSFILE:SAVE "E:\MySetup.rfs" saves the setup as "E:\MySetup.rfs".

## RFXPress:RSTDefault (No Query Form)

Restores the default setup for the currently selected plug-in. The plug-in to be reset must first be selected.

**Group** File

**Syntax** RFXPress:RSTDefault

**Examples** RFXPRESS:RSTDEFAULT restores the default setup.

## RFXPress:SELApp

Sets or returns the currently selected application.

**Group** Launch

**Syntax** RFXPress:SELApp  
RFXPress:SELApp?

**Related Commands** [RFXPress](#)

**Arguments** String  
The string values are:  
Generic signal  
UWB-wiMedia  
Radar  
OFDM

**Returns** String  
The string values returned are:  
Generic signal

UWB-wiMedia

Radar

OFDM

**Examples** RFXPRESS:SELAPP "Radar" selects the Radar application.  
 RFXPRESS:SELAPP? returns the currently selected application.

## RFXPress:RADAR:PULSE:MODULATION:UPDN:SWPRange

Sets or returns the sweep range in the Up-Down Chirp modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to Up-Down Chirp modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSE:MODULATION:UPDN:SWPRange  
 RFXPress:RADAR:PULSE:MODULATION:UPDN:SWPRange?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSE:MODULATION](#)

**Arguments** Real

**Returns** Real

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE 12e6 sets the sweep range for the currently selected pulse to 12 MHz.  
 RFXPRESS:RADAR:PULSE:MODULATION:UPDN:SWPRANGE? returns the sweep range for the currently selected pulse.

## RFXPress:RADAR:PULSE:MODULATION:USFM:AMPLitude

Sets or returns the amplitude for the selected step in the User-defined Step FM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step FM AM before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSE:MODULATION:USFM:AMPLITUDE RFXPress:RADAR:PULSE:MODULATION:USFM:AMPLITUDE?
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODULation</a> <a href="#">RFXPress:RADAR:PULSe:MODULation:USFM:SELStep</a>
<b>Arguments</b>	Real
<b>Returns</b>	Real
<b>Examples</b>	RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE -30 sets the amplitude for the currently selected pulse to -30 dB.  RFXPRESS:RADAR:PULSE:MODULATION:USFM:AMPLITUDE? returns the amplitude for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODULation:USPM:ADDN (No Query Form)

Adds 'n' user defined code steps in the User-defined Step PM AM modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to User-defined Step PM AM modulation before using this command.

<b>Group</b>	Radar: Pulse modulation
<b>Syntax</b>	RFXPress:RADAR:PULSe:MODULation:USPM:ADDN
<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODULation</a>
<b>Arguments</b>	Integer
<b>Returns</b>	Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:USPM:ADDN 6 adds 6 user defined steps for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:BPSK:SYMBOLs

Sets or returns the number of symbols in the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:BPSK:SYMBOLs  
RFXPress:RADAR:PULSe:MODUlation:BPSK:SYMBOLs?

**Related Commands** [RFXPress:RADAR:PULTrain:SELEct](#)  
[RFXPress:RADAR:PULSe:MODUlation](#)

**Arguments** Integer

**Returns** Integer

**Examples** RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS 25 sets the number of symbols for the BPSK modulation for the currently selected pulse to 25.  
RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SYMBOLS? returns the number of symbols for the BPSK modulation for the currently selected pulse.

## RFXPress:RADAR:PULSe:MODUlation:BPSK:SAME

Sets or returns the status of “Same symbols for all pulses” for the BPSK modulation for the currently selected pulse group. Select a pulse group in the pulse train table and set the modulation to BPSK modulation before using this command.

**Group** Radar: Pulse modulation

**Syntax** RFXPress:RADAR:PULSe:MODUlation:BPSK:SAME {<NR1>|OFF|ON}  
RFXPress:RADAR:PULSe:MODUlation:BPSK:SAME?

<b>Related Commands</b>	<a href="#">RFXPress:RADAR:PULTrain:SELEct</a> <a href="#">RFXPress:RADAR:PULSe:MODUlation</a>
<b>Arguments</b>	Boolean
<b>Returns</b>	Boolean
<b>Examples</b>	<p>RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME 1 sets the “Same symbols for all pulses” status for the currently selected pulse group to ON.</p> <p>RFXPRESS:RADAR:PULSE:MODULATION:BPSK:SAME? returns the “Same symbols for all pulses” status for the currently selected pulse group.</p>

## RFXPress:WLISt:CALibration:APPLy (No Query Form)

Applies calibration on the selected files in the waveform list. Select the waveform to calibrate using the [RFXPress:WLISt:SELWaveform](#) command.

<b>Group</b>	Waveform list
<b>Syntax</b>	RFXPress:WLISt:CALibration:APPLy
<b>Related Commands</b>	<a href="#">RFXPress:WLISt:SELWaveform</a> <a href="#">RFXPress:WLISt:CLRSelect</a>
<b>Arguments</b>	String
<b>Returns</b>	String
<b>Examples</b>	RFXPRESS:WLISt:CALIBRATION:APPLY “C:\RFRSA.rfc” applies calibration with the correction file “C:\RFRSA.rfc” on the selected waveforms in the waveform list.

## RFXPress:WLISt:CLRSelect (No Query Form)

Clears the selected waveforms from the waveform list.

**Group** Waveform list

**Syntax** RFXPress:WLIST:CLRSelect

**Related Commands** [RFXPress:WLIST:SELWaveform](#)

**Examples** RFXPRESS:WLIST:CLRSELECT clears the selected waveforms from the waveform list.

## RFXPress:WLIST:SELWaveform (No Query Form)

Selects the waveforms from the waveform list. The input waveform name should be present in the waveform list.

**Group** Waveform list

**Syntax** RFXPress:WLIST:SELWaveform

**Arguments** String

**Returns** String

**Examples** RFXPRESS:WLIST:SELWAVEFORM "TEST1" selects the waveform "Test1" from the waveform list.

RFXPRESS:WLIST:SELWAVEFORM "TEST1\_I", "TEST1\_Q" selects the waveforms "Test1\_I" and "Test1\_Q" from the waveform list.

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# Status and Events





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## Status and Events

There is no status and event information.



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