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- Unique SiFi II (Signal Fidelity II) technology: generate the arbitrary waveforms point by point; recover the signal without distortion; sample rate accurate and adjustable; jitter of all the output waveforms (including Sine, Pulse, etc.) as low as 200 ps
- 16 Mpts memory depth per channel for arbitrary waveforms
- Standard dual-channel with the same performance, equivalent to two independent signal sources
- High frequency stability: ±1 ppm; low phase noise: -105 dBc/Hz
- Built-in high-order harmonic generator (at most 8-order harmonics)
- Built-in 7 digits/s, 240 MHz bandwidth full featured frequency counter
- Up to 160 built-in arbitrary waveforms, covering the common signals in engineering application, medical electronics, auto electronics, math processing, and other various fields
- Sample rate up to 250 MSa/s, vertical resolution 16 bits
- Arbitrary waveform sequence editing function available; arbitrary waveforms also can be generated through the PC software
- Various analog and digital modulation functions: AM, FM, PM, ASK, FSK, PSK, and PWM.
- Standard waveform combine function, capable of outputting specified waveforms combined with the basic waveforms
- Standard channel tracking function, when enabled, all the parameters of both channels are updated based on users' configurations
- Standard interface: USB Host&Device and LAN (LXI Core 2011 Device); USB-GPIB function supported
- 4.3" TFT color touch screen
- RS232, PRBS, and Dual-tone outputs supported

### Design Features

#### Unique SiFi II Technology

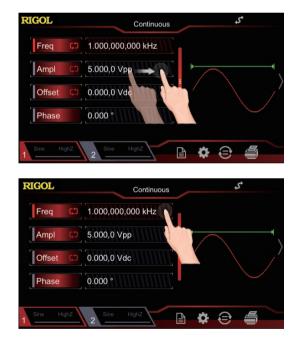
Generate the arbitrary waveforms points by points without distorting the signals. In comparison with the last generation of the SiFi technology, SiFi II has added multiple filters, supporting the dynamic adjustment of the edge time.





#### Touch-enabled UI Design

Provide brand new UI operation experience, supporting the tap and drag operation gestures. You can also use the onscreen keypad to complete the parameter settings.



#### Advanced Function Output

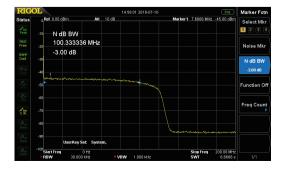
Support PRBS and RS232 pattern output and local Sequence editing.







### 100MHz Bandwidth White Gaussian Noise





### DG2000 Series Function/Arbitrary Waveform Generator





Dimensions: W×H×D = 261.5 mm × 112 mm × 318.4 mm Weight: 3.2 kg (Package Excluded)



#### Function Interface

Dual-channel with the same performance





Arbitrary waveform function with the unique SiFi II technology



RIGOL	Continuous	\$ <sup>4</sup> LXI
Freq 🗘	1.000,000,000 kHz	
Ampl 🕻	5.000,0 Vpp	
Offset 🕻	0.000,0 Vdc	$\langle \rangle$
Phase	0.000 °	
1 Sine HighZ	2 Sine HighZ	🗅 🌣 😂 着 🛁

#### 160 built-in arbitrary waveforms



#### **Burst function**



 RIGOL
 Burst
 CVI

 Delay
 0.0 ns
 Image: Sine

 Cycles
 1

 Period
 10.000,000,0 ms

 Idle Level
 1st Point

 1
 NCycle

 Highz
 2

 Arb
 Highz

#### Various analog and digital modulation functions







## Function/Arbitrary Waveform Generator DG2000 Series

#### Sweep function



#### Standard harmonic generator function



#### PRBS function





#### **Dual-tone function**



#### RS232 function



#### Sequence function







# Function/Arbitrary Waveform Generator DG2000 Series

#### Waveform combine function

IGOL	ChannelSet	\$ LXI
OutputSet	Combine	On Off
SyncSet	Waveform	Sine
CombineSet	Freq	1.000,000,000 kHz
CoupleSet	Ratio	10.0 %
Harm HighZ 2 Noi	se HighZ	

### Standard 7 digits/s, 240 MHz bandwidth frequency counter

RIGOL		Counter	\$	
K Back	Status	Run 🔶	Single	
	Freq: (	001.000,000,0 kHz		
	Period	999.999,9 us		$\rangle$
	Duty	50.088 %		
	+Width	500.881,5 us		
	-Width	499.118,4 us		

#### Channel and system setting



File management function	



RIGOL	Utility	\$* LXI
< Back		
System Setting	Language	English
Interface	Power-on	Default
بب	Clk Source	Internal
System Info	Beeper	On Off
Option	Decimal	



#### Specifications

Unless otherwise specified, all the specifications can be guaranteed when the following two conditions are met.

- The signal generator is within the calibration period.
- The signal generator has been running ceaselessly for over 30 minutes under the specified operating temperature (23°C ± 5°C).
- All the specifications are guaranteed except the parameters marked with "Typical".

#### DG2000 series specifications

Model	DG2052	DG2072	DG2102
Channel	2	2	2
Max. Frequency	50 MHz	70 MHz	100 MHz
Sample Rate	250 MSa/s		

Waveform	
Basic Waveforms	Sine, Square, Ramp, Pulse, Noise, DC, Dual-tone
Advanced Waveforms	PRBS, RS232, Sequence
Built-in Arbitrary Waveforms	160 types of waveforms, including Sinc, Exponential Rise, Exponential Fall, ECG, Gauss, HaverSine, Lorentz, etc.

Frequency Characteristics			
Sine	1 µHz to 50 MHz	1 µHz to 70 MHz	1 µHz to 100 MHz
Square	1 µHz to 15 MHz	1 µHz to 20 MHz	1 µHz to 25 MHz
Ramp	1 µHz to 1.5 MHz	1 µHz to 1.5 MHz	1 µHz to 2 MHz
Pulse	1 µHz to 15 MHz	1 µHz to 20 MHz	1 µHz to 25 MHz
Harmonic	1 µHz to 20 MHz	1 µHz to 20 MHz	1 µHz to 25 MHz
PRBS	2 kbps to 40 Mbps	2 kbps to 50 Mbps	2 kbps to 60 Mbps
Dual-tone	1 µHz to 20 MHz	1 µHz to 20 MHz	1 µHz to 20 MHz
RS232	baud rate range: 9600, 1440	00, 19200, 38400, 57600, 115200, 12	8000, 230400
Sequence	2 k to 60 MSa/s		
Noise (-3 dB)	100 MHz bandwidth		
Arbitrary Waveform	1 µHz to 15 MHz	1 µHz to 20 MHz	1 µHz to 20 MHz
Resolution	1 µHz		
Accuracy	±(1 ppm of the setting value	+ 10 pHz), 18°C to 28°C	

Sine Wave Spectrum Purity	
Harmonic Distortion	Typical <sup>[1]</sup> DC to 10 MHz (included): <-55 dBc 10 MHz to 20 MHz (included): <-50 dBc 20 MHz to 40 MHz (included): <-40 dBc >40 MHz: <-35 dBc
Total Harmonic Distortion <sup>[1]</sup>	<0.075% (10 Hz to 20 kHz)
Spurious (non-harmonic)	Typical <sup>[1]</sup> ≤10 MHz: <-60 dBc >10 MHz: <-60 dBc + 6 dB/octave
Phase Noise	Typical (0 dBm, 10 kHz offset) 10 MHz: <-105 dBc/Hz

Signal Characteristics	
Square	
Rise/Fall Time	Typical (1 Vpp, 1 kHz) ≤9 ns
Overshoot	Typical (100 kHz, 1 Vpp) ≤5%
Duty	0.01% to 99.99% (limited by the current frequency setting)
Non-symmetry	1% of the period + 4 ns
Jitter (rms)	Typical (1 Vpp) ≤5 MHz: 2 ppm of the period + 200 ps >5 MHz: 200 ps
Ramp	
Linearity	≤1% of peak output (typical, 1 kHz, 1 VPP, 100% symmetry)
Symmetry	0% to 100%

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Pulse	
Pulse	16 ns to 1000 ks (limited by the current frequency setting)
Duty	0.001% to 99.999% (limited by the current frequency setting)
Rising/Falling Edge	≥8 ns (limited by the current frequency setting and pulse width setting)
Overshoot	Typical (1 Vpp, 1 kHz) ≤5%
Jitter (rms)	Typical (1 Vpp) ≤5 MHz: 2 ppm of the period + 200 ps >5 MHz: 200 ps
Arbitrary Waveform Seque	nce
Naveform Length	16 Mpts
Vertical Resolution	16 bits
Sample Rate	Interpolation filter: 10 Sa/s to 60 MSa/s Step filter: 2k Sa/s to 50 MSa/s Smooth filter: 2k Sa/s to 50 MSa/s
Min Rise/Fall Time	Interpolation filter: ≥8 ns Step filter: 3.0/sample rate Smooth filter: 1.0/sample rate
Jitter (rms)	Typical (1 Vpp) Interpolation filter: 200 ps Step filter: <5 ps Smooth filter: <5 ps
Overshoot	Typical (1 Vpp) ≤5%
Harmonic Output	
Harmonic Order	<8 <8
Harmonic Type	Even Harmonic, Odd Harmonic, Order Harmonic, User
Harmonic Amplitude	The amplitude of each order of the harmonic can be set.
Harmonic Phase	The phase of each order of harmonic can be set.
Output Characteristics	
Amplitude (into 50 $\Omega$ )	
Range	≤10 MHz: 1.0 mVpp to 10 Vpp≤30 MHz: 1.0 mVpp to 5.0 Vpp≤60 MHz: 1.0 mVpp to 2.5 Vpp>60 MHz: 1.0 mVpp to 1 Vpp
Accuracy	Typical (1 kHz sine, 0 V offset, >10 mVpp, auto) ±(1% of the setting value) ± 5 mV
Flatness	Typical (Sine, 1 Vpp) <5 MHz: ±0.1 dB <15 MHz: ±0.2 dB <25 MHz: ±0.3 dB <40 MHz: ±0.5 dB >40 MHz: ±1 dB
Unit	Vpp, Vrms, dBm
Resolution	0.1 mVpp or 4 digits
Offset (into 50 Ω)	
Range(Peak ac+dc)	±5 Vpk ac+dc
Accuracy	$\pm$ (1% of the setting value + 5 mV + 1% of the amplitude)
Naveform Output	
Output Impedance	50 Ω (typical)
Protection	Short-circuit protection, automatically disable the waveform output when overload occurs
Modulation Characteristics	
Modulation Type	AM, FM, PM, ASK, FSK, PSK, PWM
AM	
Carrier Waveform	Sine, Square, Ramp, Arb
Source	Internal/External
NA 1 1 12 1347 6	

Sine, Square, Ramp, Noise, Arb

0% to 120%

Modulating Waveform

Modulation Depth



Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulation Frequency 2, mHz to 1 MHz PM Carrier Waveform Sine. Square, Ramp, Noise, Arb Modulation Frequency 2, mHz to 1 MHz PM Carrier Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Sine. Square, Ramp, Arb Source Internal/External Modulating Waveform Sine. Square, Ramp, Noise, Arb Modulating Maveform Sine. Square, Ramp, Nois	Source         Internal@External           Modulation Frequency         2 mitz to 1 MHz           PM         Carrier Waveform         Sine, Square, Ramp, Note, Arb           Source         Internal@External         Modulation           Modulation Frequency         2 mitz to 1 MHz         M           Source         Internal@External         Modulation           Modulation Frequency         2 mitz to 1 MHz         M           ASK         Carrier Waveform         Sine, Square, Ramp, Arb         Carrier Waveform           Source         Internal@External         Modulation Frequency         Z mitz to 1 MHz           ASK         Carrier Waveform         Sine, Square, Ramp, Arb         Source           Garrier Waveform         Sine, Square, Ramp, Arb         Source         Internal@External           Modulating Waveform         Square wth 50% duty cycle         Key Frequency         Z mitz to 1 MHz           PSK         Carrier Waveform         Sine, Square, Ramp, Arb         Source           Modulating Waveform         Square wth 50% duty cycle         Key Frequency         Z mitz to 1 MHz           PSK         Carrier Waveform         Sine, Square, Ramp, Arb         Source           Modulating Waveform         Sine, Square, Ramp, Arb         Source         Internal@		
Modulation Yequeror         Sine, Square, Ramp, Noise, Arb           Modulation Frequency         2 mHz to 1 MHz           PM         Sine, Square, Ramp, Arb           Carrier Waveform         Sine, Square, Ramp, Noise, Arb           Modulation Frequency         2 mHz to 1 MHz           PMase Deviation         O'to 360°           Modulation Frequency         2 mHz to 1 MHz           Source         InternalExternal           Modulation Frequency         2 mHz to 1 MHz           Source         InternalExternal           Modulation Frequency         2 mHz to 1 MHz           Source         InternalExternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           Source         InternalExternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK	Modulating Waveform         Sine. Square, Ramp, Noise, Arb           Modulating Frequency         2 mHz to 1 MHz           PM         Carrier Waveform           Surce         Internal/External           Modulation Frequency         2 mHz to 1 MHz           PM         Sine, Square, Ramp, Noise, Arb           Modulation Frequency         2 mHz to 1 MHz           Surce         Internal/External           Modulation Frequency         2 mHz to 1 MHz           Surce         Internal/External           Modulation Frequency         2 mHz to 1 MHz           Surce         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           FSK         Carrier Waveform           Surce         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PK         Carrier Waveform           Surce         Internal/External           Modulating Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Source         Internal/External	Carrier Waveform	Sine, Square, Ramp, Arb
Modulation Frequency         2 ntkt to 1 Mitz           PM             Carrier Waveform         Sine, Square, Ramp, Noise, Atb           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Atb           Phase Deviation         O" to 360"           Modulation Frequency         2 ntkt to 1 Mitz           ASK             Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulation Krequency         2 ntkt to 1 Mitz           Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 ntkt to 1 Mitz           PSK             Carrier Waveform         Sine, Square, Ramp, Noise, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency <td< td=""><td>Modulation Frequency         2 mHz to 1 MHz           PM         Source           Carrier Waveform         Sine, Square, Ramp, Adb           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Phase Deviation         O' to 360'           Modulation Frequency         2 mHz to 1 MHz           ASK         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Arb           Source         MarmalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           Source         MarmalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PK         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Arb           Source         InternalE-ternal           Modulati</td><td>Source</td><td>Internal/External</td></td<>	Modulation Frequency         2 mHz to 1 MHz           PM         Source           Carrier Waveform         Sine, Square, Ramp, Adb           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Phase Deviation         O' to 360'           Modulation Frequency         2 mHz to 1 MHz           ASK         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Arb           Source         MarmalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           Source         MarmalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PK         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM         Carrier Waveform           Source         InternalE-ternal           Modulating Waveform         Sine, Square, Ramp, Arb           Source         InternalE-ternal           Modulati	Source	Internal/External
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Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Phase Deviation       O" to 360"         Modulating Vieweform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulation Frequency       2 mHz to 1 MHz         ASK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Kay Frequency       2 mHz to 1 MHz         FSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Kay Frequency       2 mHz to 1 MHz         PSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       Drik to 1	Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Phase Deviation         O" to 360"           Modulation Frequency         2 mHz to 1 MHz           ASK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM         Carrier Waveform           Source         Internal/External </td <td>Modulation Frequency</td> <td>2 mHz to 1 MHz</td>	Modulation Frequency	2 mHz to 1 MHz
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Source         Internal/External           Modulating Waveform         Sine. Square, Ramp, Noise, Arb           Phase Deviation         0° to 360°           Modulation Frequency         2 mHz to 1 MHz           ASK	Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Phase Deviation         0° to 380°           Modulation Frequency         2 mHz to 1 MHz           SK         Carrier Waveform           Sine, Square, Ramp, Arb         Source           Modulation Frequency         2 mHz to 1 MHz           Kk         Feature           Carrier Waveform         Square with 50% duty cycle           Kky Frequency         2 mHz to 1 MHz           FSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Kky Frequency         2 mHz to 1 MHz           PSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Source         Internal/External           Modulation Input         Modulation Input           Modulation Input         Mintralal/External           Modul	Carrier Waveform	Sine, Square, Ramp, Arb
Phase Deviation frequency 2 mHz to 1 MHz AK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulation Yeaveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz FSK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PSK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square, Ramp, Arb Source Internal/External Modulating Waveform Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PWM Carrier Waveform Pulse Source Internal/External Modulation Frequency 2 mHz to 1 MHz FXK Modulation Frequency 2 mHz to 1 MHz FXK Input Range AK, PSK, FSK: standard 5 V TTL Input Range AK, PSK, FSK: standard 5 V TTL Input Range AK, PSK, FSK: standard 5 V TTL Input Ingedance I to X Burst Characteristics Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb FXK Source Internal/External Input Ingedance I to X Burst Characteristics Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb, PKBS, RS232, Sequence (except DC, dual-tone, and Harmonic) Carrier Frequency 2 mHz to 50 MHz 2 mHz to 70 MHz 3 m to 50 o s Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb, PKBS, RS232, Sequence (except DC, dual-tone, and Harmonic) Carrier Frequency 2 mHz to 50 MHz 2 mHz to 70 MHz 3 ma to 500 s Carrier Waveform Sine, Square, Ramp, Arb Sine, Square, Ramp, Arb Sine, Square, Ramp, Arb Sine, Square, R	Phase Deviation 0° to 360° Modulation Frequency 2 mHz to 1 MHz ASK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz FSK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Pulse Source Internat/External Modulating Waveform Sine, Square, Ramp, Noise, Arb Width Deviation 0% to 100% of the pulse width Modulation input Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac-dc) ASK, PSK, FSK: standard 5 V TTL Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac-dc) ASK, PSK, FSK: standard 5 V TTL Input Inpuedance 10 kO Burst Characteristics Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb, PMBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency 2 mHz to 10 MHz External Modulation input Input Inguedance 10 kO Burst Characteristics Source External Trigger Source Internat/External Source External Trigger Source Internat/External Source Internat/External Source Internat/External Source Internat/External Source Internat/External Source Internat/External Source Internat/External Source Internat/Externat/ Source Internat/ Source Internat/ Source Internat/ Source Internat/ Source	Source	Internal/External
Phase Deviation frequency 2 mHz to 1 MHz AK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulation Yeaveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz FSK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PSK Carrier Waveform Sine, Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PSK Carrier Waveform Square, Ramp, Arb Source Internal/External Modulating Waveform Square, Ramp, Arb Source Internal/External Modulating Waveform Square with 50% duty cycle Kay Frequency 2 mHz to 1 MHz PWM Carrier Waveform Pulse Source Internal/External Modulation Frequency 2 mHz to 1 MHz FXK Modulation Frequency 2 mHz to 1 MHz FXK Input Range AK, PSK, FSK: standard 5 V TTL Input Range AK, PSK, FSK: standard 5 V TTL Input Range AK, PSK, FSK: standard 5 V TTL Input Ingedance I to X Burst Characteristics Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb FXK Source Internal/External Input Ingedance I to X Burst Characteristics Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb, PKBS, RS232, Sequence (except DC, dual-tone, and Harmonic) Carrier Frequency 2 mHz to 50 MHz 2 mHz to 70 MHz 3 m to 50 o s Carrier Waveform Sine, Square, Ramp, Pulse, Noise, Arb, PKBS, RS232, Sequence (except DC, dual-tone, and Harmonic) Carrier Frequency 2 mHz to 50 MHz 2 mHz to 70 MHz 3 ma to 500 s Carrier Waveform Sine, Square, Ramp, Arb Sine, Square, Ramp, Arb Sine, Square, Ramp, Arb Sine, Square, R	Phase Deviation 0° to 360° Modulation Frequency 2 mHz to 1 MHz ASK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz FSK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PSK Carrier Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency 2 mHz to 1 MHz PWM Carrier Waveform Pulse Source Internat/External Modulating Waveform Sine, Square, Ramp, Noise, Arb Width Deviation 0% to 100% of the pulse width Modulation Input Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL Input Inpedance 10 kD Burst Characteristics Carrier Frequency 2 mHz to 10 MHz External Modulation Input Input Inpedance 10 kD Burst Characteristics Source External Trigger Source Internat/External Source External Trigger Source Internat/External Source Internat/External Source Internation Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency 2 mHz to 50 MHz 2 12 mHz to 70 MHz 2 2 mHz to 100 MHz Burst Count 1 to 1,000,000 or Infinite Internat Pictod 1 up to 500 s Gated Source Externat Trigger Source Internat, Ramp, Arb Source Internat, Ramp, Arb Source Internat, Ramp, Arb Source Internat, Ramp, Arb Marker Falling edge of the sync signal (programmable) Frequency Counter Frequency Counter	Modulating Waveform	Sine, Square, Ramp, Noise, Arb
ASK         Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         FSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square, Ramp, Noise, Arb         WWM       Carrier Waveform       Pulse         Source       Internal/External         Modulation frequency       2 mHz to 1 MHz         PWM       Carrier Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       Ofk to 100% of the pulse width         Modulation Input       AM, PM, FM: 78 mVRMS to 45 (Vac+dc)         Input Range       ASK,	ASK Carrier Waveform Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Kky Frequency Z mHz to 1 MHz FSK Carrier Waveform Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Kky Frequency Z mHz to 1 MHz FSK Carrier Waveform Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Sine. Square, Ramp, Arb Carrier Waveform Source Internat/External Modulating Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Sine, Square, Ramp, Arb Source Internat/External Modulating Waveform Sine, Square, Ramp, Note Carrier Waveform Source Internat/External Modulating Waveform Sine, Square, Ramp, Note, Arb Width Deviation Ø% to 100% of the pulse width Modulation Frequency Z mHz to 1 MHz External Modulation Input Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AK, PKK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AK, PKK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AK, PKK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AK, PKK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS, PKK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) AKS AKS, PKK, FSK: Standard 5 V TTL In		
ASK         Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         FSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square, Ramp, Noise, Arb         WWM       Carrier Waveform       Pulse         Source       Internal/External         Modulation frequency       2 mHz to 1 MHz         PWM       Carrier Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       Ofk to 100% of the pulse width         Modulation Input       AM, PM, FM: 78 mVRMS to 45 (Vac+dc)         Input Range       ASK,	ASK Carrier Waveform Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency Ternative form Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Square with 50% duty cycle Key Frequency Ternative form Sine. Square, Ramp, Arb Source Internat/External Modulating Waveform Sine, Square, Ramp, Note, Arb Width Deviation Ø% to 100% of the pulse width Modulation Frequency 2 mHz to 1 MHz External Modulation input Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS to ±5 (Vac+dc) AK, PSK, FSK: Standard 5 V TTL Input Bandwidth 50 KHz Input Range AM, PM, FM: 75 m/RNS KM Internative Internative Internative Internative Internative Inter	Modulation Frequency	2 mHz to 1 MHz
Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           FSK	Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           FSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Source with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM         Carrier Waveform           Source         Internal/External           Modulating Waveform         Pulse           Source         Internal/External           Modulation Frequency         2 mHz to 11MHz           PWM         Carrier Waveform           Guare with 50% duty cycle         Key	· · ·	
Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           FSK	Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           FSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Source with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK         Carrier Waveform           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM         Carrier Waveform           Source         Internal/External           Modulating Waveform         Pulse           Source         Internal/External           Modulation Frequency         2 mHz to 11MHz           PWM         Carrier Waveform           Guare with 50% duty cycle         Key		Sine, Square, Ramp, Arb
Modulating Waveform     Square with 50% duty cycle       Kay Frequency     2 mHz to 1 MHz       FSK     Sine, Square, Ramp, Arb       Carrier Waveform     Sine, Square, Ramp, Arb       Source     Internal/External       Modulating Waveform     Siguare with 50% duty cycle       Kay Frequency     2 mHz to 1 MHz       PSK	Modulating Waveform     Square with 50% duty cycle       Key Frequency     2 mHz to 1 MHz       FSK     Earlier Waveform       Source     Internat/External       Modulating Waveform     Square with 50% duty cycle       Key Frequency     2 mHz to 1 MHz       PSK     Earlier Waveform       Source     Internat/External       Modulating Waveform     Square with 50% duty cycle       Key Frequency     2 mHz to 1 MHz       PSK     Earlier Waveform       Source     Internat/External       Modulating Waveform     Square with 50% duty cycle       Key Frequency     2 mHz to 1 MHz       PWM     Earlier Waveform     Pulse       Carrier Waveform     Pulse       Source     Internat/External       Modulating Waveform     Sine, Square, Ramp, Noise, Arb       Width Deviation     0% to 100% of the pulse width       Modulatin Frequency     2 mHz to 1 MHz       External Modulation Input     Input Range       Input Range     AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)       Ags, PSK, FSK: standard 5 V TTL     Input Marghedith       Input Browdith     50 kHz       Input Browdith     50 kHz       Input Browdith     50 kHz       Input Browdith     10 kΩ       Burst Characteristics     Im	Source	
Key Frequency       2 mHz to 1 MHz         FSK	Key Frequency       2 mHz to 1 MHz         FSK		
FSK           Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK	FSK           Carrier Waveform         Sine, Square, Ramp, Arb           Source         Internal/External           Modulating Waveform         Square with 50% duy cycle           Key Frequency         2 mHz to 1 MHz           PSK		
Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       O% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, PSK, FSK: standard 5 V TTL         Input Impedance       10 kΩ         Burst Characteristics       Input Impedance         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 100 MHz         Burst Characteristics       Input Impedance       1 to 1,000,000 or Infinite         Internal Period       1 to 1,000,000 or Infinite       2 mHz to 100 MHz         Burst Characteristics       Source       Internal, External, Manual	Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PSK       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Impedance       10 kQ         Burst Characteristics       Carrier Waveform         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-lone, and Harmonic         Carrier Waveform       Sine, S		
Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK	Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PSK		Sine Square Ramp Arb
Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PSK	Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PSK       Sine, Square, Ramp, Arb         Garrier Waveform       Sine, Square, Ramp, Arb         Modulating Waveform       Square, with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Earrier Waveform         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         ASK, PSK, FSK: standard 5 V TTL       Input Bandwidth         Input Bandwidth       50 kHz         Input Range       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, DTM Hz         Burst Characteristics       Carrier Waveform         Carrier Vaveform       Sine, Square, Ramp, Arb         Tinger Delay       0 ns to 100 s         Start/Stop Frequency       Z mHz to 50 s         Gated Source       External Manu		
Key Frequency       2 mHz to 1 MHz         PSK         Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       External         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Ags, PSK, FSK: standard 5 V TTL       Input Range         Input Range       10 kΩ         Burst Characteristics       Carrier Waveform         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Kaveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Waveform       Sine, Square, Ramp, Arb       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,00,000 or Infinite       Internal / External, Manual       Trigger Delay       0 ns to 100 s	Key Frequency       2 mHz to 1 MHz         PSK		
PSK       Sine, Square, Ramp, Arb         Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Bange         Input Bange       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Input Bredance       10 kΩ         Burst Characteristics       Carrier Frequency         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz         Burst Characteristics       Surce       2 mHz to 500 MHz         Carrier Frequency       2 mHz to 500 Miz       2 mHz to 100 MHz         Burst Characteristics       Surce       2 mHz to 70 MHz       2 mHz to 100 MHz         Gated Source       External Trigger       Source       Surce       In	PSK       Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Earrier Waveform         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Bandwidth       50 KHz         Input Impedance       10 kΩ         Burst Characteristics       2 mHz to 50 MHz         Carrier Frequency       2 mHz to 50 MHz         Burst Count       1 to 1,000,000 or Infinite         Internal Period       1 us to 500 s         Gated Source       External Modulation         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Freq		
Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM	Carrier Waveform       Sine, Square, Ramp, Arb         Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Vaveform         Carrier Vaveform       Puise         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       Ø% to 100% of the puise width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       MM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Bandwidth       50 kK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Bandwidth       10 kΩ         Burst Characteristics       2 mHz to 30 MHz         Carrier Vaveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Vaveform       Ine, Square, Ramp, Arb         Trigger Delay       0 ns to 100 s         Source       Internal, External, Manual         Trigger Delay       0 ns to 100		
Source         Internal/External           Modulating Waveform         Square with 50% duty cycle           Key Frequency         2 mHz to 1 MHz           PWM	Source       Internal/External         Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Internal/External         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         ASK, FSK, SKK, Standard 5 V TL       Input Bandwidth         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Input Range       Ske, Ske, FSK: standard 5 V TL         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Input Bandwidth       50 KHz         Internal Period       1 to 1,00,000 or infinite         Internal, External, Manua		Cine Cause Dave Ark
Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM	Modulating Waveform       Square with 50% duty cycle         Key Frequency       2 mHz to 1 MHz         PWM       Pulse         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Witch Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         ASK, PSK, FSK: standard 5 V TTL       Input Bandwidth         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Impedance       1 to 1         Ot AQ       2 mHz to 50 MHz         Burst Characteristics       2 mHz to 50 MHz         Carrier Vaveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Vaveform       Sine, Square, Ramp, Arb Type         Internal Period       1 us to 500 s         Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform         Sine, Square,		
Key Frequency       2 mHz to 1 MHz         PWM         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Widt Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Range       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,00,000 or Infinite       Internal, External, Manual       1 ps to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       Trigger Delay       0 ns to 100 s       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step       Orientation       Up/Down       Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Same as the upper/lower limit of the corresponding carrier frequency	Key Frequency       2 mHz to 1 MHz         PWM       Carrier Waveform         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       MM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Bandwidth       50 kHz         Input Bandwidth       10 kΩ         Burst Characteristics       2 mHz to 50 MHz         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz         Burst Count       1 to 10,00,000 or infinite       1         Internal, External, Manual       Trigger Delay       0 ns to 100 s         <		
PWM         Pulse           Carrier Waveform         Pulse           Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           Width Deviation         0% to 100% of the pulse width           Modulation Frequency         2 mHz to 1 MHz           External Modulation Input         Input Range           Input Range         AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL           Input Bandwidth         50 kHz           Input Bandwidth         10 kΩ           Burst Characteristics         2 mHz to 50 MHz           Carrier Waveform         Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)           Carrier Vaveform         1 to 1,000,000 or Infinite           Internal, Period         1 µs to 500 s           Source	PWM       Pulse         Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       ASK, PSK, SSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics       Input Impedance         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1       1       1       1       1       2 mHz to 70 MHz       2 mHz to 100 MHz         Source       External Trigger       Source       1       1 to 1,000,000 or Infinite       1       <		
Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       O% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics       Input Range         Carrier Frequency       2 mHz to 50 MHz         2 mHz to 50 MHz       2 mHz to 10 MHz         Burst Count       1 to 1,000,000 or Infinite         Internal Feriod       1 us to 500 s         Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform         Sine, Square, Ramp, Arb       Type         Lineart, Log, and Step       Orientation         Up/Down       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequ	Carrier Waveform       Pulse         Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         AgK, PSK, FSK: standard 5 V TTL       Input Bandwidth         Input Bandwidth       50 kHz         Burst Characteristics       2 mHz to 50 MHz         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Garted Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform         Carrier Wa		2 mHz to 1 MHz
Source       Internal/External         Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       Input Range         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Carrier Karceteristics       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       2 mHz to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       Trigger Delay       0 ns to 100 s       Sweep Characteristics         Carrier Waveform       Sine, Square, Ramp, Arb       Type       Linear, Log, and Step       Type         Orientation       Up/Down       Same as the upper/lower limit of the corresponding carrier frequency       Sweep Time       1 ms to 500 s	Source         Internal/External           Modulating Waveform         Sine, Square, Ramp, Noise, Arb           With Deviation         0% to 100% of the pulse width           Modulation Frequency         2 mHz to 1 MHz           External Modulation Input         AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)           ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth           Input Bandwidth         50 kHz           Input Impedance         10 kΩ           Burst Characteristics         Carrier Vaveform           Carrier Frequency         2 mHz to 50 MHz         2 mHz to 100 MHz           Burst Characteristics         2 mHz to 50 MHz         2 mHz to 100 MHz           Garrier Frequency         2 mHz to 50 MHz         2 mHz to 100 MHz           Burst Count         1 to 1,000,000 or Infinite         1           Internal Period         1 μs to 500 s         Gated Source         External Trigger           Source         Internal, External, Manual         Trigger Delay         0 ns to 100 s           Sweep Characteristics         Carrier Waveform         Sine, Square, Ramp, Arb         Type           Linear, Log, and Step         Orientation         Up/Down         Same as the upper/lower limit of the corresponding carrier frequency           Sweep Time         1 ms to 500 s         Source </td <td></td> <td></td>		
Modulating Waveform       Sine, Square, Ramp, Noise, Arb         Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Burst Characteristics       Carrier Waveform         Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz         Burst Count       1 to 1,000,000 or Infinite         Internal Period       1 µs to 500 s       2 mHz to 70 MHz         Gated Source       External Trigger         Source       Internal, External, Manual       Trigger Delay         O ns to 100 s       Sine, Square, Ramp, Arb       Type         Carrier Waveform       Sine, Square, Ramp, Arb       Type         Orientation       Up/Dow	Modulating Waveform         Sine, Square, Ramp, Noise, Arb           With Deviation         0% to 100% of the pulse width           Modulation Frequency         2 mHz to 1 MHz           External Modulation Input         AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)           Input Bandwidth         50 kHz           Input Rance         10 kΩ           Burst Characteristics           Carrier Waveform           Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic           Carrier Frequency         2 mHz to 50 MHz         2 mHz to 100 MHz           Burst Count         1 to 1,000,000 or Infinite         1         1           Internal Period         1 μs to 500 s         6         6           Gated Source         External Trigger         Source         1           Source         Internal, External, Manual         Trigger Delay         0 ns to 100 s           Sweep Characteristics         Carrier Waveform         Sine, Square, Ramp, Arb         7           Type         Linear, Log, and Step         0         0 <td< td=""><td></td><td></td></td<>		
Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics	Width Deviation       0% to 100% of the pulse width         Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         ASK, PSK, FSK: standard 5 V TTL       Input Bandwidth         50 kHz       10 kΩ         Burst Characteristics         Carrier Waveform         Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 100 MHz         Burst Cont       1 to 1,000,000 or Infinite       1         Internal Period       1 µs to 500 s       2         Gated Source       External Trigger       3         Source       Internal, External, Manual       1         Trigger Delay       0 ns to 100 s       1         Sweep Characteristics       1       2         Carrier Waveform       Sine, Square, Ramp, Arb       1         Type       Linear, Log, and Step       0         Orientation       Up/Down       1       1ms to 500 s         Source       Internal, External, Manual       1       1ms to 500 s         Source       Internal, External, Manual       Mark		
Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       ASK, PSK, SSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics       Carrier Waveform         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1       1       10 k0         Burst Count       1 to 1,000,000 or Infinite       1       1       1       1         Internal Period       1 µs to 500 s       Gated Source       External Trigger       Source       Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s       Sine, Square, Ramp, Arb       Type       Linear, Log, and Step       Corientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency       Same as the upper/lower limit of the corresponding carrier frequency       Same as the upper/lower limit of the corresponding carrier frequency         Same as the upper/lower limit of the corresponding carrier frequency       Same as the upper/lower limit of the correspo	Modulation Frequency       2 mHz to 1 MHz         External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Range       ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics       Input Bandwidth         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency         Burst Count       1 to 1,000,000 or Infinite         Internal Period       1 μs to 500 Hz         Internal Period       1 μs to 500 s         Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Marker         Hold/Return Time       Frequency, Period, Positive/Negative Pulse Width, Duty Cycle <td></td> <td></td>		
External Modulation Input       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics	External Modulation Input         Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc)         Input Bandwidth       50 kHz         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics       Carrier Yaveform         Carrier Frequency       2 mHz to 50 MHz         2 mHz to 50 MHz       2 mHz to 70 MHz         Burst Count       1 to 1,000,000 or Infinite         Internal Period       1 µs to 500 s         Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier frequency         Carrier Xaveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Trigger Delay       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Gource       Internal, External, Manual		
Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics	Input Range       AM, PM, FM: 75 mVRMS to ±5 (Vac+dc) ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 kHz         Input Impedance       10 kΩ         Burst Characteristics		2 mHz to 1 MHz
Input Range       ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 KHz         Input Impedance       10 kΩ         Burst Characteristics         Carrier Waveform         Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 to 1,000,000 or S       3 mHz to 500 s       3 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 up to 500 s       3 mHz to 500 s       3 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 mternal Period       1 µs to 500 s       3 mHz to 100 MHz         Source       External Trigger       5 on s       5 on s to 100 s       5 on s to 100 s         Sweep Characteristics       Sine, Square, Ramp, Arb       5 on s to 100 s       5 on s to 100 s         Type       Linear, Log, and Step       5 on s       5 on s       5 on s         Orientation       Up/Down       5 and s the upper/lower limit of the corresponding carrier frequency       5 ame as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s       5 on s       5 on s       5 on s	Input Range       ASK, PSK, FSK: standard 5 V TTL         Input Bandwidth       50 KHz         Input Impedance       10 kΩ         Burst Characteristics	External Modulation Input	
Input Impedance       10 kΩ         Burst Characteristics       Example Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 to 1,000,000 or Infinite       1 to 1,000,000 or Infinite         Internal Period       1 µs to 500 s       External Trigger       Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s       Sweep Characteristics       Source       Internal, External, Manual         Type       Linear, Log, and Step       Orientation       Up/Down       Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s       Hold/Return Time       0 ms to 500 s       Source	Input Impedance       10 kΩ         Burst Characteristics       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency         2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1         Internal Period       1 µs to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform       Sine, Square, Ramp, Arb       Type         Carrier Waveform       Sine, Square, Ramp, Arb       Type       Unreating and Step         Orientation       Up/Down       Same as the upper/lower limit of the corresponding carrier frequency       Sweep Time         Hold/Return Time       0 ms to 500 s       Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)       Frequency Counter         Frequency Counter       Frequency, Period, Positive/Negative Pulse Width, Duty Cycle       Frequency Cycle	Input Range	
Burst Characteristics         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       Internal Period       1 µs to 500 s         Gated Source       External Trigger       Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s       Sine, Square, Ramp, Arb         Sweep Characteristics       Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step       Orientation         Orientation       Up/Down       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s       Hold/Return Time       0 ms to 500 s	Burst Characteristics         Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency         Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1       1       1 to 1,000,000 or Infinite         Internal Period       1 µs to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step       Orientation         Orientation       Up/Down       Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s       Hold/Return Time       0 ms to 500 s         Hold/Return Time       0 ms to 500 s       Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)       Frequency Counter	Input Bandwidth	50 kHz
Carrier WaveformSine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 s	Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 to 1,000,000 or Infinite       1       1         Internal Period       1 µs to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       1       1         Trigger Delay       0 ns to 100 s       1       1000,000 relation for the corresponding carrier frequency         Sweep Characteristics       Carrier Waveform       Sine, Square, Ramp, Arb       1         Type       Linear, Log, and Step       0       0         Orientation       Up/Down       1       1000 s       100 s         Sweep Time       1 ms to 500 s       1       1000 s       1000 s         Hold/Return Time       0 ms to 500 s       100 s       100 s       100 s         Frequency Counter       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s       100	Input Impedance	10 kΩ
Carrier WaveformSine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 s	Carrier Waveform       Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic Carrier Frequency       2 mHz to 50 MHz       2 mHz to 70 MHz       2 mHz to 100 MHz         Burst Count       1 to 1,000,000 or Infinite       1 to 1,000,000 or Infinite       1       1         Internal Period       1 µs to 500 s       Gated Source       External Trigger         Source       Internal, External, Manual       1       100 s         Trigger Delay       0 ns to 100 s       1       1000,000 s         Sweep Characteristics       Carrier Waveform       Sine, Square, Ramp, Arb       1         Type       Linear, Log, and Step       0       100/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency       Sweep Time         Hold/Return Time       0 ms to 500 s       100 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual       100 ms to 500 s       100 ms to 500 s         Source       Internal, External, Manual		
Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, Manual	Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, ManualMarkerFalling edge of the sync signal (programmable)Frequency CounterMeasurement FunctionFrequency, Period, Positive/Negative Pulse Width, Duty Cycle	Burst Characteristics	
Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, Manual	Carrier Frequency2 mHz to 50 MHz2 mHz to 70 MHz2 mHz to 100 MHzBurst Count1 to 1,000,000 or InfiniteInternal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, ManualMarkerFalling edge of the sync signal (programmable)Frequency CounterMeasurement FunctionFrequency, Period, Positive/Negative Pulse Width, Duty Cycle	Carrier Waveform	Sine, Square, Ramp, Pulse, Noise, Arb, PRBS, RS232, Sequence (except DC, dual-tone, and Harmonic)
Internal Period1 µs to 500 sGated SourceExternal TriggerSourceInternal, External, ManualTrigger Delay0 ns to 100 sSweep CharacteristicsCarrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, Manual	Internal Period       1 µs to 500 s         Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics       Carrier Waveform         Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Frequency, Period, Positive/Negative Pulse Width, Duty Cycle	Carrier Frequency	
Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics	Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics	Burst Count	1 to 1,000,000 or Infinite
Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics         Carrier Waveform         Sine, Square, Ramp, Arb         Type         Linear, Log, and Step         Orientation         Up/Down         Start/Stop Frequency         Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time         1 ms to 500 s         Hold/Return Time         0 ms to 500 s         Source	Gated Source       External Trigger         Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics	Internal Period	1 µs to 500 s
Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics         Carrier Waveform         Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual	Source       Internal, External, Manual         Trigger Delay       0 ns to 100 s         Sweep Characteristics	Gated Source	
Trigger Delay       0 ns to 100 s         Sweep Characteristics         Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual	Trigger Delay       0 ns to 100 s         Sweep Characteristics         Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
Sweep Characteristics         Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual	Sweep Characteristics         Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Measurement Function       Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
Carrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, Manual	Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
Carrier WaveformSine, Square, Ramp, ArbTypeLinear, Log, and StepOrientationUp/DownStart/Stop FrequencySame as the upper/lower limit of the corresponding carrier frequencySweep Time1 ms to 500 sHold/Return Time0 ms to 500 sSourceInternal, External, Manual	Carrier Waveform       Sine, Square, Ramp, Arb         Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle	Sween Characteristics	
Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual	Type       Linear, Log, and Step         Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		Sine Square Ramp Arb
Orientation         Up/Down           Start/Stop Frequency         Same as the upper/lower limit of the corresponding carrier frequency           Sweep Time         1 ms to 500 s           Hold/Return Time         0 ms to 500 s           Source         Internal, External, Manual	Orientation       Up/Down         Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual	Start/Stop Frequency       Same as the upper/lower limit of the corresponding carrier frequency         Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
Sweep Time     1 ms to 500 s       Hold/Return Time     0 ms to 500 s       Source     Internal, External, Manual	Sweep Time       1 ms to 500 s         Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter       Measurement Function         Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		•
Hold/Return Time     0 ms to 500 s       Source     Internal, External, Manual	Hold/Return Time       0 ms to 500 s         Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter		
Source Internal, External, Manual	Source       Internal, External, Manual         Marker       Falling edge of the sync signal (programmable)         Frequency Counter		
	Marker       Falling edge of the sync signal (programmable)         Frequency Counter		
Invarker     Falling edge of the sync signal (programmable)	Frequency Counter         Measurement Function       Frequency, Period, Positive/Negative Pulse Width, Duty Cycle		
	Measurement Function Frequency, Period, Positive/Negative Pulse Width, Duty Cycle	warker	railing eage of the sync signal (programmable)
	Measurement Function Frequency, Period, Positive/Negative Pulse Width, Duty Cycle	_	
	Frequency Resolution 7 digits/s (Gate Time = 1 s)		
Frequency Resolution 7 digits/s (Gate Time = 1 s)		Frequency Resolution	7 digits/s (Gate Time = 1 s)



# Function/Arbitrary Waveform Generator DG2000 Series

Frequency Range	1 µHz to 240 MHz			
Period Measurement	Measurement Range	4 ns to 1,000 ks		
Voltage Range and Sensitivity	y (non-modulating signal)			
	DC Offset Range	±1.5 Vdc		
DC Coupling	1 µHz to 100 MHz	50 mVRMS to ±2.5 (Vac+dc)		
	100 MHz to 240 MHz	100 mVRMS to ±2.5 (Vac+dc)		
AC Coupling	1 µHz to 100 MHz	50 mVRMS to ±2.5 Vpp		
Ac coupling	100 MHz to 240 MHz	100 mVRMS to ±2.5 Vpp		
Pulse Width and Duty Cycle M	Measurement			
Frequency and Amplitude Ranges	1 µHz to 25 MHz	50 mVRMS to ±2.5 (Vac+dc)		
Pulse Width	Min. Pulse Width	≥20 ns	DC Coupling	
	Pulse Width Resolution	5 ns		
Duty	Measurement Range (display)	0% to 100%		
Input Characteristics				
Input Signal Range	Disruptive Discharge Voltage	±7 (Vac+dc)	Input Impedance = 1 MΩ	
	Coupling Mode	AC	DC	
Input Adjustment	High Frequency Rejection	On: Input Bandwidth = 150 kHz; Off: Input Bandwidth = 240 MHz		
Input Trigger	Trigger Level Range	-2.5 V to +2.5 V		
input mggei	Trigger Sensitivity Range	High, Low		
	1 ms	1.048 ms		
	10 ms	8.389 ms		
GateTime	100 ms	134.218 ms		
Gaterime	1 s	1.074 s		
	10 s	8.590 s		
	>10 s	>8.590 s		

Trigger Characteristics		
Trig Input		
Level	TTL-compatible	
Slope	Rising or falling (selectable)	
Pulse Width	>100 ns	
Latency	Sweep: <100 ns (typical) Burst: <350 ns (typical)	
Trigger Output		
Level	TTL-compatible	
Pulse Width	>60 ns (typical)	
Max. Frequency	1 MHz	

Two-channel Characteristics - Phase Offset			
Range	0° to 360°		
Waveform Phase Resolution	0.03°		

10 MHz ± 50 Hz
250 mVpp to 5 Vpp
<2 s
1 kΩ, AC coupling
10 MHz ± 50 Hz
3.3 Vpp
50 Ω, AC coupling

Synchronous Output		
Level	TTL-compatible	
Impedance	50 Ω, nominal value	



#### Overvoltage Protection

#### Occurred when:

The instrument amplitude setting is greater than 3.2 Vpp or the output AC+DC is greater than  $|1.6V_{DC}|$  and the input voltage is greater than  $\pm 12 \times (1 \pm 5\%)V$  (<10 kHz).Disruptive discharge voltage:  $\pm 18(Vac + dc)$ .

The instrument amplitude setting is smaller than or equal to 3.2 Vpp or the output AC+DC is smaller than  $|1.6V_{DC}|$  and the input voltage is greater than  $\pm 2.6 \times (1 \pm 5\%)V$  (<10 kHz).Disruptive discharge voltage:  $\pm 5(Vac + dc)$ .

Overcurrent Protection				
Occurred when: the current	is greater than ±240 mA.			
Programming Time				
Configuration Changes	USB			
Function Change	10 ms			
Amplitude Change	5 ms			
Frequency Change	5 ms			
General Specifications				
Power Supply				
Power Voltage	100 V to 127 V (45 Hz to 440 Hz) 100 V to 240 V (45 Hz to 65 Hz)			
Power Consumption	Lower than 30 W			
Display				
Туре	4.3-inch TFT LCD touch screen			
Resolution	480 horizontal × RGB × 272 vertical resolution	1		
Color	16 M	16 M		
Environment				
Temperature Range	Operating: 0°C to 45°C Non-operating: -40°C to 60°C			
Cooling Method	Natural air cooling			
Humidity Range	Below 30°C: ≤95%RH 30°C to 40°C: ≤75%RH 40°C to 50°C: ≤45%RH			
Altitude	Operating: below 3,000 meters Non-operating: below 15,000 meters			
Mechanical Characteristics				
Dimensions (W×H×D)	261.5 mm × 112 mm × 318.4 mm			
Weight	Package excluded: 3.2 kg Package included: 4.5 kg			
Interface	USB Host, USB Device, and USB-GPIB			
IP Protection	IP2X			
Calibration Interval	1 year (recommended)			
Certification Information				
	Compliant with EN61326-1:2006			
	IEC 61000-3-2:2000	±4.0 kV (Contact Discharge) ±4.0 kV (Air Discharge)		
	IEC 61000-4-3:2002	3 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2.0 GHz to 2.7 GHz)		
	IEC 61000-4-4:2004	1kV power line		
EMC	IEC 61000-4-5:2001	0.5 kV (phase-to-neutral voltage); 0.5 kV (phase-to-earth voltage); 1 kV (neutral-to-earth voltage)		
	IEC 61000-4-6:2003	3 V, 0.15 MHz to 80 MHz		
	IEC 61000-4-11:2004	Voltage dip: 0% UT during half cycle 0% UT during 1 cycle 70% UT during 25 cycles Short interruption: 0% UT during 1 cycle		
Electrical Safety	complies with USA: UL 61010-1:2012, Canada: CAN/CSA-C22.2 No. 61010-1-2012 EN 61010-1:2010,			

#### Options and Accessories

	Description	Order No
Model	DG2052 (50 MHz, Dual-channel)	DG2052
	DG2072 (70 MHz, Dual-channel)	DG2072
	DG2102 (100 MHz, Dual-channel)	DG2102
Standard Accessories	1 Power Cord conforming to the standard of the destination country	-
	1 USB Cable	CB-USBA-USBB-FF-150
	1 BNC Cable	CB-BNC-BNC-MM-100
	1 Quick Guide	-
	1 Product Warranty Card	-
Optional Accessories	40 dB Attenuator	RA5040K
	USB-GPIB Interface Converter	USB-GPIB-L