

DS335 Function Generator

Frequency range

	Max. Frequency	Resolution
Sine	3.1 MHz	1 μ Hz
Square	3.1 MHz	1 μ Hz
Ramp	10 kHz	1 μ Hz
Triangle	10 kHz	1 μ Hz
Noise	3.5 MHz	(Gaussian weighting)

Amplitude

Range	50 mVpp to 10 Vpp (50 Ω), 100 mVpp to 20 Vpp (High-Z)
Resolution	3 digits (DC offset = 0V)
Offset	± 5 VDC (50 Ω), ± 10 VDC (High-Z)
Offset resolution	3 digits
Accuracy	0.1 dB (sine output)

Sine Wave

Spurious response	<-65 dBc to 1 MHz, -55 dBc to 3.1 MHz
Harmonic distortion	
DC to 100 kHz	<-60 dBc
100 kHz to 1 MHz	<-50 dBc
1 MHz to 3 MHz	<-40 dBc
Phase noise	<-60 dBc (30 kHz band centered on carrier)

Square Wave

Rise/fall time	<15 ns \pm 5 ns (10 % to 90 %)
Asymmetry	<3 ns + 1 % of period
Overshoot	<5 % (full-scale output)

Ramps and Triangles

Rise/fall time	100 ns
Linearity	± 0.1 % of full scale
Settling time	200 ns (0.5 % of final value)

FSK Modulation

Modes	Internal, External
Max. rate	50 kHz, internal
External FSK	TTL input, 1 MHz (max.)

Sweeps

Type	Linear and logarithmic (phase continuous)
Span	Linear (full frequency range), log (6 decades)
Sweep rate	0.01 Hz to 1 kHz

Timebase Accuracy

Standard

±5 ppm (20 °C to 30 °C)

Optional

TCXO, 2 ppm stability, 2 ppm aging (20 °C to 50 °C)

General

Interfaces

Optional RS-232 and GPIB. All instrument functions are controllable over the interfaces.

Non-volatile memory

Up to nine sets of instrument settings may be stored and recalled.

Dimensions

8.5" × 3.5" × 13" (WHL)

Weight

8 lbs.

Power

22 W, 100/120/220/240 VAC, 50/60 Hz