

Dual Channel Function/Arbitrary Waveform Generators 4060B Series

Company	B&K Precision		Keysight	Tektronix
Model	4060B Series	4060 Series	33500B Series	AFG31000 Series
Starting List price	\$995	\$1,325	\$3,271	\$2,210
Frequency				
Maximum Sine Frequency	40 MHz to 120 MHz	80 MHz to 160 MHz	20 MHz to 30 MHz	25 MHz to 250 MHz
Maximum Square Wave Frequency	25 MHz	40 MHz to 50 MHz	20 MHz to 30 MHz	20 MHz to 160 MHz
Output Characteristics				
Amplitude Accuracy	± (1% + 1 mVpp)	± (0.3 dbm + 1 mVpp)	± (1% + 1 mVpp)	± (1% + 1 mVpp)
Amplitude Flatness	± 0.3 dB (50 Ω load, 0 MHz to 100 MHz) ± 0.4 dB (50 Ω load, 100 MHz to 120 MHz)	± 0.5 dB (≤ 80 MHz)	± 0.15 dB (100 kHz to 5 MHz), ± 0.3 dB (5 MHz to 20 MHz), ± 0.4 dB (20 MHz to 30 MHz)	± 0.3 dB (5 MHz to 100 MHz)
Rise/Fall Time (pulse)	8.4 ns	6 ns	8.4 ns	≤ 7 ns to ≤ 2 ns (depending on model) (amplitude ≤ 5 Vpp, typical)
Total Harmonic Distortion (sine)	10 Hz to 20 kHz at 0 dB, < 0.075%	DC to 20 kHz at 1 Vpp, < 0.2 %	20 Hz to 20 kHz < 0.04%	10 Hz to 20 kHz at 1 Vpp ≤ 0.04%
Arbitrary Characteristics				
Sample Rate	300 MSa/s (DDS mode) 75 MSa/s (True AWG mode)	500 MSa/s (DDS)	250 MSa/s (True AWG)	250 MSa/s to 2 GSa/s (depending on waveform length and model)
Built-in Waveforms	196	36	17	Not specified
Vertical Resolution	16-bit	14-bit	16-bit	14-bit
Maximum Waveform Length	8 Mpts	512 kpts	1 Mpts (16 Mpts option)	16 Mpts (128 Mpts option)
Jitter (rms)	150 ps	2 ns (typical)	40 ps (typical)	2.5 ps (typical)
General				
Number of Channels	2	2	1 or 2	1 or 2
Frequency Accuracy	± 1 ppm (1 year)	± 2 ppm (1 year)	± 1 ppm (1 year), (± 0.1 ppm option)	± 1 ppm (1 year)
I/O Interfaces	USB host, USB (USBTMC), LAN standard, optional GPIB adapter	USB host, USB (USBTMC), optional GPIB adapter	USB host, USB (USBTMC), LAN, GPIB (option)	USB host, USB (USBTMC), LAN, GPIB