

Arbitrary/Function Waveform Generators

4078C Series

Company	B&K Precision		Keysight	
Model	4078C	4079C	33522B	33612A
				
List price	\$2,250	\$2,600	\$4,607	\$7,606
Channels	2		2	
Output				
Maximum Frequency	30 MHz	50 MHz	30 MHz	80 MHz
Amplitude Range	1 mV to 10 Vpp (into 50 Ω) or 2 mV to 20 Vpp (into open circuit)		1 mV to 10 Vpp (into 50 Ω) or 2 mV to 20 Vpp (into open circuit)	
Amplitude Accuracy (1 kHz)	± 1% of setting in Vpp ± 1 mVpp		± 1% of setting in Vpp ± 1 mVpp	
THD (20 Hz to 20 kHz)	< 0.04%		< 0.04%	
Arbitrary Waveform Characteristics				
Maximum Sampling Rate	250 Msa/s		250 Msa/s	660 Msa/s
Vertical Resolution	16 bits		16 bits	14 bits
Waveform Length	4 Mpts / channel		1 Mpts / channel	4 Mpts / channel
Rise/Fall time	6 ns		10 ns	
No. Built-in Waveforms	12		17	
Storage Capacity (non-volatile)	128 MB		64 MB	970 MB
Function Generator Characteristics				
Sine	1 mHz to 30 MHz	1 mHz to 50 MHz	1 μHz to 30 MHz	1 μHz to 80 MHz
Square	1 mHz to 30 MHz	1 mHz to 50 MHz	1 μHz to 30 MHz	1 μHz to 80 MHz
Triangle/Ramp	1 mHz to 1 MHz		1 μHz to 200 kHz	1 μHz to 800 kHz
Pulse Width	20 ns (min)		16 ns (min)	5 ns (min)
Modulation	AM / FM / PM / FSK / BPSK		AM / FM / PM / FSK / BPSK / PWM / Sum	
Burst and Sweep	✔		✔	
General				
Protections	Overload		Overload	
Display	4.3" LCD		4.3" WQVGA with LED backlight	
Remote Interfaces	USB (USBTMC-compliant), LAN, GPIB (optional)		USB (USBTMC-compliant), LAN (LXI-compliant)	USB (USBTMC-compliant), LAN (LXI-compliant), GPIB (optional)
Warranty	3 Years		3 Years	