

Keysight Technologies



Signal Generator

Special Export Options

Maximum performance with minimum order processing time N5173/83B, E8257D, E8267D

Certain PSG (E8257D and E8267D) and EXG/MXG(N5173/83B) signal generator options require a US export license as a condition of sale. Keysight Technologies, Inc. has created a series of special options (HNS, HNY, HBQ, HBR, HFA and HNZ), which tailor these signal generators to set the performance as high as possible without requiring an export license. By choosing these options you will eliminate all processing time associated with the export license process, thereby dramatically reducing the amount of time it takes to receive your new instrument.

Keysight signal generators

E8257D PSG Analog signal generator	E8267D PSG Vector signal generator	N5173/83B EXG/MXG Analog signal generator
		
<ul style="list-style-type: none">– Industry-leading output power, level accuracy, and phase noise performance up to 67 GHz (operational to 70 GHz).– High output power and superior level accuracy often eliminate the need for an external amplifier for testing high power devices and minimize test uncertainty to identify errors early in the design process.	<ul style="list-style-type: none">– Industry's first integrated micro-wave vector signal generator with I/Q modulation up to 44 GHz.– High output power, outstanding phase noise, and advanced wideband internal baseband generator capable of flexible arbitrary waveform playback or sophisticated real-time signal generation.	<ul style="list-style-type: none">– Ideal for broadband component manufacturing up to 40 GHz with frequency switching speeds for improved test times for applications like antenna test, with a small size (2RU) to better utilize rack space.– Excellent power and level accuracy make the EXG/MXG a reliable stimulus for driving high power devices.
www.keysight.com/find/E8257D	www.keysight.com/find/E8267D	www.keysight.com/find/N5183B www.keysight.com/find/N5173B

Signal generator special options								
E8257D								
Option		HNS						
Required options	540, 550, 567	Minimum pulse width	F ≤ 31.8 GHz			F > 31.8 GHz		
Replaces option	UNW	ALC On	1 μs			1 μs		
Modifies the standard instrument to allow narrow pulse modulation up to 31.8 GHz. For frequencies greater than 31.8 GHz, minimum pulse widths are limited to 30 ns.		ALC Off						
		50 to 400 MHz		30 ns			30 ns	
		> 400 MHz		20 ns			30 ns	
Option		HNY						
Required options	1E1 and 513, 520, 532 or 540	Absolute SSB phase noise (dBc/Hz) (CW)	Offset from carrier, optimized for less than 150 kHz (mode 1), dBc/Hz					
Incompatible options	1EM, 1ED, 1SM or any custom hardware options							
Replaces option	UNY		1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz
Exportable ultra-low phase noise		Frequency	Spec (typ)	Spec (typ)	Spec (typ)	Spec (typ)	Spec (typ)	Spec (typ)
		250 kHz to 250 MHz	–58 (–66)	–87 (–94)	–104 (–115)	–121 (–131)	–136 (–142)	–141 (–145)
		> 250 to 500 MHz	–61 (–70)	–88 (–98)	–106 (–112)	–123 (–129)	–136 (–142)	–137 (–141)
		> 500 MHz to 1 GHz	–57 (–63)	–84 (–93)	–101 (–110)	–121 (–124)	–134 (–138)	–131 (–136)
		> 1 to 2 GHz	–51 (–58)	–79 (–86)	–96 (–103)	–113 (–118)	–129 (–132)	–126 (–130)
		> 2 to 3.2 GHz	–46 (–54)	–74 (–82)	–92 (–94)	–108 (–113)	–125 (–131)	–122 (–128)
		> 3.2 to 10 GHz	–37 (–44)	–65 (–72)	–81 (–80)	–99 (–104)	–116 (–121)	–114 (–118)
		> 10 to 20 GHz	–31 (–38)	–59 (–66)	–75 (–79)	–93 (–98)	–110 (–115)	–108 (–112)
		> 20 to 40 GHz	–25 (–32)	–53 (–60)	–69 (–73)	–87 (–92)	–105 (–109)	–103 (–106)
E8267D								
Option		HNS						
Required options	544	Minimum pulse width	F ≤ 31.8 GHz			F > 31.8 GHz		
Replaces option	UNW	ALC On	1 μs			1 μs		
Modifies the standard instrument to allow narrow pulse modulation up to 31.8 GHz. For frequencies greater than 31.8 GHz, minimum pulse widths are limited to 30 ns.		ALC Off						
		50 to 400 MHz		30 ns			30 ns	
		> 400 MHz		20 ns			30 ns	
Option		HBQ						
Replaces option	016 and 532 or 544	Operating frequency	3.2 GHz to max frequency of instrument					
300 MHz BW differential IQ inputs. Bandwidth limited above 3.2 GHz carrier frequency		Bandwidth	3 dB: > 300 MHz (typ), 35 dB: < 550 MHz (typ)					
N5173/83B								
Option		UW2						
Required options	540	Minimum pulse width	F ≤ 31.8 GHz			F > 31.8 GHz		
Replaced option	UNW	ALC On	1 μs			1 μs		
Modifies the standard instrument to allow narrow pulse modulation up to 31.8 GHz. For frequencies greater than 31.8 GHz, minimum pulse widths are limited to 30 ns.		ALC Off						
		50 to 400 MHz		30 ns			30 ns	
		> 400 MHz		20 ns			30 ns	
Option		UZ2						
Replaces option	UNZ	Frequency switching speed	SCPI mode			List mode		
Optimized frequency switching speed.			Spec (typ)			Spec (typ)		
		Option 520	1.4 ms (1 ms)			1.15 ms (850 μs)		
		Option 532	1.4 ms (1 ms)			1.15 ms (850 μs)		
		Option 540	1.65 ms (1.25 ms)			1.4 ms (1.1 ms)		

Related Literature

Keysight PSG Signal Generators Brochure, Literature number 5989-1324EN

Keysight E8257D Microwave Analog Signal Generator Data Sheet, Literature number 5989-0698EN

Keysight E8267D Vector Signal Generator Data Sheet, Literature number 5989-0697EN

Keysight N5183B MXG Microwave Analog Signal Generator Data Sheet, Literature number 5991-3131EN

Keysight N5173B EXG Microwave Analog Signal Generator Data Sheet, Literature number 5991-3132EN

Web Resources

www.keysight.com/find/E8257D-HNS

www.keysight.com/find/E8257D-HNY

www.keysight.com/find/E8267D-HNS

www.keysight.com/find/E8267D-HBQ

www.keysight.com/find/psg

www.keysight.com/find/N5183B

www.keysight.com/find/N5173B

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