



E8257C PSG analog signal generator



**Agilent Technologies** 

## Agilent Microwave PSG CW/Analog signal generators options

### Step 1. Choose type of signal generator with frequency range (Mandatory)

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8247C-520	PSG CW 250 kHz to 20 GHz	Provides an unmodulated continuous wave signal (can be used as a LO substitute)		
	E8257C-520	PSG analog 250 kHz to 20 GHz	Provides flexible analog modulation		
	E8247C-540	PSG CW 250 kHz to 40 GHz	Provides an unmodulated continuous wave signal (can be used as a LO substitute)		
	E8257C-540	PSG analog 250 kHz to 40 GHz	Provides flexible analog modulation		

## Dynamic range

### Step 2. Choose a step attenuator - option 1E1 (Not mandatory)

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8247C-1E1	Adds output step attenuator down to –135 dBm	User's application requires power level below –20 dBm (standard)		
	E8257C-1E1	Adds output step attenuator down to –135 dBm	User's application requires power level below –20 dBm (standard)		

### Highest output power

### Step 3. Choose high output power - option 1EA (Not mandatory)

Selection √	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8247C-1EA	High RF output power	Provides +20 dBm RF output power at 20 GHz (typically +25 dBm) which eliminates the need for external amplifiers		
	E8257C-1EA	High RF output power	Provides +20 dBm RF output power at 20 GHz (typically +25 dBm) which eliminates the need for external amplifiers		

### Step 4. Choose enhanced phase noise - option UNR (Not mandatory)

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8247C-UNR	Enhanced phase noise performance	User's application requires low close-in phase noise (i.e. –106 dBm (typical) at 1 kHz offs from 10 GHz carrier) approximately 24 dB improvement over standard	set	
	E8257C-UNR	Enhanced phase noise performance	User's application requires low close-in phase noise (i.e. –106 dBm (typical) at 1 kHz offs from 10 GHz carrier) approximately 24 dB improvement over standard	set	

### Narrow pulse modulation

## Step 5. Choose narrow pulse modulation - option 1E6 (Not mandatory)

Selection	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8257C-1E6	Provides narrow pulse modulation >500 MHz	Allows narrow pulses with fast rise & fall times of 10 ns from 500 MHz to the maximum frequency of the instrument		

# Stimulus response capability with scalar network analyzer

### Step 6. Choose ramp sweep - option 007 (Not mandatory)

Selection ✓	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	E8247C-007	Provides ramp sweep, scalar interface, Z-axis blanking, and markers	User's application requires stimulus response and utilizes 8757D scalar network analyzer		
	E8257C-007	Provides ramp sweep, scalar interface, Z-axis blanking, and markers	User's application requires stimulus response and utilizes 8757D scalar network analyzer		

## **Accessory options**

Choose accessories or instrument connector configuration (Not mandatory) Note: Standard 20 GHz models have a 3.5 mm (m) RF output connector on the front panel. Standard 40 GHz models have a 2.4 mm (m) RF output connector on the front panel.

Selection	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
<u> </u>	E8247C-1ED	Type-N (f) connector		E8247C-540	0000000
	E8257C-1ED	Type-N (f) connector		E8257C-540	
	E8247C-1EM	Move all connectors to rear panel			
	E8257C-1EM	Move all connectors to rear panel			
	E8247C-1CM	Rack mount kit			
	E8257C-1CM	Rack mount kit			
	E8247C-1CN	Front handle kit			
	E8257C-1CN	Front handle kit			
	E8247C-1CP	Rack mount kit with front handle kit			
	E8257C-1CP	Rack mount kit with front handle kit			
	83554A	Millimeter-wave source module R-band	Banded solution for extending frequency from 26.5 to 40 GHz		E8247C-1EA o E8257C-1EA
	83555A	Millimeter-wave source module Q-band	Banded solution for extending frequency from 33 to 50 GHz		E8247C-1EA o E8257C-1EA
	83556A	Millimeter-wave source module U-band	Banded solution for extending frequency from 40 to 60 GHz		E8247C-1EA o E8257C-1EA
	83557A	Millimeter-wave source module V-band	Banded solution for extending frequency from 50 to 75 GHz		E8247C-1EA o E8257C-1EA
	83558A	Millimeter-wave source module W-band	Banded solution for extending frequency from 75 to 110 GHz		E8247C-1EA o E8257C-1EA
	8120-8806	Master/slave interface cable			

### To add options to a product, use the following ordering scheme:

Model: E82x7C, where x = 4 or 5 Example model options: Option E8247C-520 Option E8257C-520

## Manuals

### Choose manuals (Not mandatory)

Standard products ship with electronic (CD-ROM) manuals. The CD-ROM includes a user's guide, programming and calibration guides, Intuilink and other product literature.

Selection	Ordering	Description	Purpose	Not compatible	Recommended
$\checkmark$	number				option(s)
	E82x7C-ABA	English manual set (hardcopy – no CD)			
	E82x7C-ABD	German localized supplemental user's guide (hardcopy – no CD)			
	E82x7C-ABF	French localized supplemental user's guide (hardcopy – no CD)			
	E82x7C-ABJ	Japanese localized supplemental user's guide (hardcopy – no CD)			
	E82x7C-ABA	Korean localized supplemental user's guide (hardcopy – no CD)			
	E82x7C-CD1	CD-ROM documentation includes PDF files of user's guide, calibration guide, service quide, SCPI command reference guide, error messages, key reference guide, and additional product literature)			
	E82x7C-0BW	Adds the service manual (assembly leve	el)		
	E82x7C-UK6	Commercial calibration certificate with test dates			

### Choose documentation (Not mandatory) If you want to order the PSG's documentation separately

Selection √	Documentation part number	Title
	E8251-90259	Service Guide
	E8251-90251	User's Documentation on CD-ROM
	E8251-90252	Installation Guide
	E8251-90253	User's Guide
	E8251-90254	Key and Data Field Reference
	E8251-90255	Programming Guide
	E8251-90256	SCPI Command Reference
	E8251-90257	Error Messages

# Warranty, service and calibration options

### Choose a warranty plan (not mandatory)

Selection	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	Standard	1-year return-to-Agil warranty and servic			
	3 years	Extended return-to-Agilent warranty and servic	e		
	5 years	Extended return-to-Agilent warranty and servic	e		

### Choose a calibration plan<sup>1</sup> (not mandatory)

There is no calibration plan standard with the E8267C. For a calibration plan, specify 3 or 5 years for one of the appropriate plans below when ordering. For more information on the plans,

please visit w	ww.agilent.com/	find/services_	upfront	options.
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Selection	Ordering number	Description	Purpose	Not compatible	Recommended option(s)
	N/A	Agilent Calibration			
		Upfront Plan			
	N/A	Agilent Calibration Plus Upfront Plan			
	N/A	Z540 Calibration Upfront Plan			

## There are no factory or service center upgradeable options for E8247C and E8257C signal generators.

### Customer installable upgrade options

Upgrade kit will be sent to the customer for installation. Service center can install upgrade kits for an additional cost. Please consult your local Agilent representative for further information.

Selection	Upgradeable	Description
~	options	
	E8247CK-1EA	High output power
	E8257CK-1EA	High output power
	E8247CK-007	High output power
	E8257CK-007	High output power

## **Related Agilent literature**

*PSG Signal Generator Brochure* Literature number 5989-1324EN

Agilent E8247/57C PSG CW and Analog Signal Generator Data Sheet Literature number 5988-7454EN

Agilent E8267C PSG Vector Signal Generator Data Sheet Literature number 5988-6632EN

Agilent E8267C PSG Vector Signal Generator Configuration Guide Literature number 5988-7541EN

*PSG Series Product Note: Millimeter Head* Literature number 5988-2567EN

*PSG Two-tone and Multi-tone Application Note* Application Note 1410 Literature number 5988-7689EN

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Free Agilent software:

- Latest software and drivers for the PSG
  - Upgrade your PSG with the latest software enhancements
- PSG/ESG Download assistant software
  - Download waveforms directly from the MATLAB<sup>®</sup> environment into the signal generator for playback
- · Agilent IntuiLink connectivity software
  - Connectivity software solution that links test and measurement instrument data to PC applications

The above free software can be found by selecting the Software, Firmware, & Drivers embedded link located on each of the PSG E8267C, PSG E8257C or PSG E8247C (where applicable). For more information visit:

www.agilent.com/find/psg

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