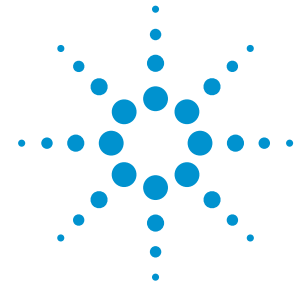


Agilent 53147A, 53148A, 53149A Microwave Frequency Counter/Power Meter/DVM



The Agilent 53140 Series includes full-featured 20 GHz/26.5 GHz/46 GHz continuous wave (CW) microwave frequency counter, a true power meter, and a dc DVM all in one small convenient package.



53140 Series microwave frequency Counter/Power meter/DVM

Key features

- Two channel counters offering one channel from 10 Hz to 125 MHz and the ultra-wideband continuous wave (CW) microwave input channel from 50 MHz to 20/26.5/46 GHz
- True Power Meter with a selection of sensors and DC DVM for Automatic Gain Control (AGC) and Power Supply measurements
- Portable and rugged with an optional battery for field use



Quick Fact Sheet

Agilent 53147A, 53148A, 53149A Microwave | Frequency Counter/Power Meter/DVM

Product specifications

Model	Microwave bandwidth	Additional measurements	Resolution	Additional features	Interfaces
53147A	20 GHz	DC volts and power	1 s/1 Hz	Battery for portability	GPIB, RS-232
53148A	26.5 GHz	DC volts and power	1 s/1 Hz	Battery for portability	GPIB, RS-232
53149A	46 GHz	DC volts and power	1 s/1 Hz	Battery for portability	GPIB, RS-232

Sensors for 5314xA microwave counters

Although several of the sensor models are in disco-sale status, the customer service representative (CSR) can enter an order for those sensors for use with 5314xA microwave counters. The CSR will need to submit for a passcode that will get routed for approval and provided to complete the order.

	Frequency range	Connector	Zero set
25 watt sensors: 1 mW to 25 W (0 to +44 dBm)			
8481B (Disco)	10 MHz to 18 GHz	N (m)	$\pm 50 \mu\text{W}$
3 watt sensors: 100 μW to 3 W (-10 to +35 dBm)			
8481H (Disco)	10 MHz to 18 GHz	N (m)	$\pm 5 \mu\text{W}$
100 mW sensors: 1 μW to 100 mW (-30 to +20 dBm)			
8485A (Disco)	50 MHz to 26.5 GHz	APC-3.5 mm (m)	$\pm 50 \text{ nW}$
8481A (Disco)	10 MHz to 18 GHz	N (m)	$\pm 50 \text{ nW}$
8482A (Disco)	100 kHz to 4.2 GHz	N (m)	$\pm 50 \text{ nW}$
8487A (Disco)	50 MHz to 50 GHz	2.4 mm (m)	$\pm 50 \text{ nW}$
High sensitivity sensors: 100 pW to 10 μW (-70 to -20 dBm)			
8481D	10 MHz to 18 GHz	N (m)	$\pm 20 \text{ pW}$
8485D	50 MHz to 26.5 GHz	APC-3.5 mm (m)	$\pm 20 \text{ pW}$
8485D Opt 033	50 MHz to 33 GHz	APC-3.5 mm (m)	$\pm 20 \text{ pW}$
8487D	50 MHz to 50 GHz	2.4 mm (m)	$\pm 20 \text{ pW}$

Recommended service options

Additional two years of Return-to-Agilent warranty

Additional two years of Return-to-Agilent calibrations

For more information go to www.agilent.com/find/removealldoubt

53140A Series options

Options	Description
001	High stability oven timebase
002	Battery and DC input
007	Soft carrying case
Optional accessories	Description
34131A	Transit case

For more details on Agilent frequency counters and ordering information see

"Agilent 53140 Series microwave counter, power meter and DVM in one portable package", literature number 5988-0300EN.

For more information on Agilent frequency counters, please visit: www.agilent.com/find/counters

To find a distributor in your area, go to: www.agilent.com/find/distributors

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2010, Printed in USA, June 29, 2010

5990-5046EN



Agilent Technologies