

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 5347A

Agilent 5347A 20 GHz Microwave Counter Power Meter The HP/Agilent 5347A combines a 500 MHz to 20 GHz CW microwave counter with an 8480-series power meter in one portable instrument. OEM Agilent 5347A 20 GHz Microwave Counter / Power Meter data sheet lists Input 1 sensitivity minus 32 dBm (500 MHz to 12.4 GHz), Input 2 from 10 Hz to 525 MHz at 25 mVrms, and power minus 70 to +20 dBm sensor-dependent. Field microwave-link frequency and power; ATE whereaseparate counter and power meter would consume two rack slots; portable battery-powered microwave maintenance. The HP/Agilent 5347A combines a 500 MHz to 20 GHz CW microwave counter with an 8480-series power meter in one portable instrument. OEM Agilent 5347A 20 GHz Microwave Counter / Power Meter data sheet lists Input 1 sensitivity minus 32 dBm (500 MHz to 12.4 GHz), Input 2 from 10 Hz to 525 MHz at 25 mVrms, and power minus 70 to +20 dBm sensor-dependent. Field microwave-link frequency and power; ATE whereaseparate counter and power meter would consume two rack slots; portable battery-powered microwave maintenance.



MODEL

**Agilent / Keysight
5347A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

5347A

LISTING

<https://aumictechlabs.com/products/5347a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 5347A is a dual-channel frequency counter and power meter combining microwave measurement capability in a portable instrument. Input 1 covers 500 MHz to 20.0 GHz with sensitivity down to -32 dBm (500 MHz to 12.4 GHz) and -27 dBm (12.4 GHz to 20.0 GHz).

Input 2 extends low-frequency coverage from 10 Hz to 525 MHz at 25 mV rms sensitivity. The power meter operates across 0 MHz to 20 GHz with -70 dBm to +20 dBm range, sensor-dependent, delivering 50 dB dynamic range in 10 dB steps.

Technical Specifications

Frequency Counter

Input 1 (Type N, female) Frequency range: 500 MHz to 20.0 GHz Sensitivity: -32 dBm to -35 dBm (500 MHz-12.4 GHz); -27 dBm to -32 dBm (12.4 GHz-20.0 GHz) Maximum input: +7 dBm; damage level +25 dBm peak Resolution: 1 Hz or 10 kHz, selectable Tracking speed: 1 MHz/sec (1 Hz) or 1 GHz/sec (10 kHz) Acquisition time: <125 ms (1 Hz) or 6 dB above signals within 500 MHz; >20 dB above signals within 500 MHz to 20 GHz

Frequency Counter

Input 2 (BNC, female) Frequency range: 10 Hz to 525 MHz Sensitivity: 25 mV rms (15 mV rms typical) Impedance: 1 M Ω nominal shunted 5 kHz, 50 Ω) Resolution: 1 Hz or 10 kHz, selectable

Power Meter Frequency range: 0 MHz to 20 GHz (sensor-dependent) Power range: -70 dBm to +20 dBm (sensor-dependent) Supported sensors: HP 8481A, HP 8481D, HP 8484A, HP 8485A Dynamic range: 50 dB in 10 dB steps Display units: Watts, dBm Resolution: 0.01 dB logarithmic

Key Features

Five-key user interface simplifies operation Optional internal battery: up to 2 hours cordless operation Dual-input architecture: microwave (N-type) and low-frequency (BNC) channels AC-coupled inputs on both channels Modulation tolerance: any AM index; FM up to 10 MHz

Compatibility & Integration Compatible with HP power sensors (8481A, 8481D, 8484A, 8485A) Optional HP-IB interface for ATE system integration and manual mode control (± 60 MHz deviation)

5347A Characteristics / Specifications

PARAMETER	VALUE
Model	5347A
Instrument Type	Microwave frequency counter and power meter
Series Family	HP 5347A/5348A
Input 1 Frequency Range	500 MHz to 20 GHz
Input 1 Sensitivity 500 Mhz To 12.4 Ghz	minus 32 dBm (minus 35 dBm typical)
Input 1 Sensitivity 12.4 Ghz To 20 Ghz	minus 27 dBm (minus 32 dBm typical)
Input 1 Maximum Input	+7 dBm
Input 1 Damage Level	+25 dBm peak
Input 1 Swr 500 Mhz To 12.4 Ghz Typical	less than 2:1 typical
Input 1 Swr 12.4 Ghz To 20 Ghz Typical	less than 3:1 typical
Input 1 Frequency Accuracy	± 1 LSD $\pm$ timebase error times frequency
Input 1 Resolution	1 Hz or 10 kHz selectable
Input 2 Frequency Range	10 Hz to 525 MHz
Input 2 Sensitivity	25 mVrms (15 mVrms typical)
Input 2 Impedance Low Frequency	1 M Ω nominal shunted by less than 70 pF, 10 Hz to 80 MHz
Input 2 Impedance High Frequency	50 Ω nominal, 10 MHz to 525 MHz
Acquisition Time 1 Hz	less than 125 ms
Acquisition Time 10 Khz	less than 60 ms
Fm Maximum Deviation Auto	20 MHz peak to peak automatic mode
Fm Maximum Rate	10 MHz
Power Meter Frequency Range	10 MHz to 20 GHz, sensor dependent
Power Meter Power Range	minus 70 dBm to +20 dBm, sensor dependent
Power Meter Dynamic Range	50 dB in 10 dB steps
Power Meter Resolution Log	0.01 dB
Power Meter Instrumentation Accuracy	± 0.02 dB or ± 5 percent

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	5347A
Instrument Type	Microwave frequency counter and power meter
Series Family	HP 5347A/5348A
Input 1 Frequency Range	500 MHz to 20 GHz
Input 1 Sensitivity 500 Mhz To 12.4 Ghz: minus 32 dBm (minus 35 dBm typical)	
Input 1 Sensitivity 12.4 Ghz To 20 Ghz: minus 27 dBm (minus 32 dBm typical)	
Input 1 Maximum Input: +7 dBm	
Input 1 Damage Level: +25 dBm peak	
Input 1 Swr 500 Mhz To 12.4 Ghz Typical: less than 2:1 typical	
Input 1 Swr 12.4 Ghz To 20 Ghz Typical: less than 3:1 typical	
Input 1 Frequency Accuracy: ±1 LSD ± timebase error times frequency	
Input 1 Resolution: 1 Hz or 10 kHz selectable	
Option 006 Damage Level To 6 Ghz: +39 dBm (8 W), 500 MHz to 6 GHz	
Option 006 Damage Level 6 To 18 Ghz: +36 dBm (4 W), 6 GHz to 18 GHz	
Specifications	
PARAMETER	VALUE
Input 2 Frequency Range	10 Hz to 525 MHz
Input 2 Sensitivity	25 mVrms (15 mVrms typical)
Input 2 Impedance Low Frequency	1 MΩ nominal shunted by less than 70 pF, 10 Hz to 80 MHz
Input 2 Impedance High Frequency	50 Ω nominal, 10 MHz to 525 MHz
Acquisition Time 1 Hz	less than 125 ms
Acquisition Time 10 Khz	less than 60 ms
Fm Maximum Deviation Auto	20 MHz peak to peak automatic mode
Fm Maximum Rate	10 MHz
Power Meter Frequency Range	10 MHz to 20 GHz, sensor dependent
Power Meter Power Range	minus 70 dBm to +20 dBm, sensor dependent
Power Meter Dynamic Range	50 dB in 10 dB steps
Power Meter Resolution Log	0.01 dB
Power Meter Instrumentation Accuracy	±0.02 dB or ±5 percent

Notes

Numeric rows from Agilent 5347A 20 GHz Microwave Counter / Power Meter data sheet. Option 006 reduces Input 1 sensitivity by 3 dB (500 MHz to 12.4 GHz) and 4 dB (12.4 to 20 GHz).

Ordering Information

OPTION	DESCRIPTION
Option 006	HP-IB control of manual FM tracking mode

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.