

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 5348A

Agilent 5348A 26.5 GHz Microwave Counter Power Meter The HP/Agilent 5348A extends the 5347A counter/power-meter architecture to 26.5 GHz on Input 1. OEM Agilent 5348A 26.5 GHz Microwave Counter/Power Meter specifications list 500 MHz to 26.5 GHz, minus 20 dBm sensitivity from 20 to 26.5 GHz, Input 2 10 Hz to 525 MHz, and power minus 70 to +20 dBm sensor-dependent. 26.5 GHz microwave-link frequency and power; portable ATE; field maintenance with a single box. Automatic amplitude discrimination to 26.5 GHz The HP/Agilent 5348A extends the 5347A counter/power-meter architecture to 26.5 GHz on Input 1. OEM Agilent 5348A 26.5 GHz Microwave Counter/Power Meter specifications list 500 MHz to 26.5 GHz, minus 20 dBm sensitivity from 20 to 26.5 GHz, Input 2 10 Hz to 525 MHz, and power minus 70 to +20 dBm sensor-dependent. 26.5 GHz microwave-link frequency and power; portable ATE; field maintenance with a single box. Automatic amplitude discrimination to 26.5 GHz Power meter to 26.5 GHz with 8480-series sensors



MODEL

**Agilent / Keysight  
5348A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**5348A**

LISTING

<https://aumictechlabs.com/products/5348a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight 5348A is a portable microwave counter and power meter that combines frequency measurement and power analysis into a single instrument. It covers frequencies from 50 MHz to 26.5 GHz on the primary microwave input, with a secondary input extending down to 10 Hz. The unit delivers measurement resolution selectable from 1 Hz to 1 MHz, tracking speeds

up to 1 GHz/sec, and acquisition times under 125 ms. Power measurement capability spans -70 dBm to +20 dBm with 50 dB dynamic range in 10 dB steps and 0.01 dB resolution in logarithmic mode. Input impedance is 50 ohm on the microwave channel with a maximum safe input of +7 dBm and damage levels reaching +39 dBm at 500 MHz-6 GHz. The ruggedized form factor, five-function key interface, and optional internal battery support field installation, maintenance of microwave links, component testing, and RF measurement tasks. Sensitivity varies by frequency band: -32 dBm typical at 500 MHz-12.4 GHz, -27 dBm at 12.4-20.0 GHz, and -20 dBm at 20.0-26.5 GHz. Automatic amplitude discrimination isolates the dominant signal when it exceeds nearby signals by 6 dB or more within 500 MHz, or by 20 dB above competing signals in the 500 MHz-26.5 GHz band.

**Technical Specifications**

**Frequency Counter**

Input 1: 50 MHz to 26.5 GHz (CW)

Input 2: 10 Hz to 525 MHz

Resolution: 1 Hz to 1 MHz (selectable), or 1 Hz / 10 kHz

Tracking Speed: 1 MHz/sec (1 Hz resolution); 1 GHz/sec (10 kHz resolution)

Acquisition Time: <125 ms at 1 Hz; <60 ms at 10 kHz

Power Range: -70 dBm to +20 dBm (100 pW to 100 mW); -70 dBm to +44 dBm with specified sensors

Power Dynamic Range: 50 dB in 10 dB steps

Power Resolution: 0.01 dB (logarithmic) or 0.1% of full scale (linear)

Power Accuracy:  $\pm 0.02$  dB or  $\pm 5\%$

Input 1 Impedance: 50 ohm

Input 2 Impedance: 1 Mohm nominal with <70 pF shunt (10 Hz-80 MHz); 50 ohm nominal (10 MHz-525 MHz)

Maximum Input Level: +7 dBm

Damage Level (Input 1): +39 dBm at 500 MHz-6 GHz; +36 dBm at 6-18 GHz; +34.8 dBm at 18-26.5 GHz

**Key Features**

Dual input configuration for microwave and low-frequency measurements

Sensitivity ranges from -35 dBm typical (500 MHz-12.4 GHz) to -27 dBm typical (20.0-26.5 GHz)

Maximum deviation limits: 20 MHz p-p automatic mode; 60 MHz p-p manual mode (HP-IB)

Maximum FM rate: 10 MHz

Automatic filter selection for dynamic range optimization

Digital zero set:  $\pm 5\%$  of full scale on most sensitive range

**Typical Applications**

Microwave link installation and field maintenance

RF component characterization and testing

General-purpose RF and microwave measurements

**Compatibility & Integration**

HP-IB interface support for remote control and manual mode configuration

## 5348A Characteristics / Specifications

| PARAMETER                               | VALUE                                                            |
|-----------------------------------------|------------------------------------------------------------------|
| Model                                   | 5348A                                                            |
| Instrument Type                         | Microwave frequency counter and power meter                      |
| Series Family                           | HP 5347A/5348A                                                   |
| Input 1 Frequency Range                 | 500 MHz to 26.5 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 Sensitivity 20 Ghz To 26.5 Ghz  | minus 20 dBm (minus 27 dBm typical)                              |
| Input 1 Frequency Accuracy              | $\pm 1$ 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 $\Omega$ nominal shunted by less than 70 pF, 10 Hz to 80 MHz |
| Input 2 Impedance High Frequency        | 50 $\Omega$ nominal, 10 MHz to 525 MHz                           |
| Input 2 Damage Level Dc To 5 Khz        | 250 V (dc + ac peak)                                             |
| Amplitude Discrimination Close          | greater than 6 dB typical within 500 MHz                         |
| Amplitude Discrimination Far            | greater than 20 dB typical, 500 MHz to 26.5 GHz                  |
| Tracking Speed 1 Hz                     | 1 MHz per second                                                 |
| Tracking Speed 10 Khz                   | 1 GHz per second                                                 |
| 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 Deviation Manual             | 60 MHz peak to peak manual mode via HP-IB                        |
| Fm Maximum Rate                         | 10 MHz                                                           |
| Power Meter Frequency Range             | 10 MHz to 26.5 GHz, sensor dependent                             |
| Power Meter Power Range                 | minus 70 dBm to +20 dBm, sensor dependent                        |

| PARAMETER                            | VALUE                  |
|--------------------------------------|------------------------|
| 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 list 500 MHz to 26.5 GHz, minus 20 dBm sensitivity from 20 to 26.5 GHz, Input 2 10 Hz to 525 MHz, and power minus 70 to +20 dBm sensor-dependent.

Applications  
26.5 GHz microwave-link frequency and power; portable ATE; field maintenance with a single box.

Key Features  
Same five-key portable UI as the 5347A  
Automatic amplitude discrimination to 26.5 GHz  
1 Hz or 10 kHz resolution  
Power meter to 26.5 GHz with 8480-series sensors  
HP-IB for remote frequency and power

Technical Specifications

## Technical Specifications

| PARAMETER               | VALUE                                       |
|-------------------------|---------------------------------------------|
| Model                   | 5348A                                       |
| Instrument Type         | Microwave frequency counter and power meter |
| Series Family           | HP 5347A/5348A                              |
| Input 1 Frequency Range | 500 MHz to 26.5 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 Sensitivity 20 Ghz To 26.5 Ghz: minus 20 dBm (minus 27 dBm typical)

## Specifications

| PARAMETER                        | VALUE                                                    |
|----------------------------------|----------------------------------------------------------|
| Input 1 Frequency Accuracy       | ±1 LSD ± 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 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                          |

Input 2 Damage Level Dc To 5 Khz: 250 V (dc + ac peak)

## Specifications

| PARAMETER                      | VALUE                                           |
|--------------------------------|-------------------------------------------------|
| Amplitude Discrimination Close | greater than 6 dB typical within 500 MHz        |
| Amplitude Discrimination Far   | greater than 20 dB typical, 500 MHz to 26.5 GHz |

| PARAMETER                            | VALUE                                     |
|--------------------------------------|-------------------------------------------|
| Tracking Speed 1 Hz                  | 1 MHz per second                          |
| Tracking Speed 10 KHz                | 1 GHz per second                          |
| 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 Deviation Manual          | 60 MHz peak to peak manual mode via HP-IB |
| Fm Maximum Rate                      | 10 MHz                                    |
| Power Meter Frequency Range          | 10 MHz to 26.5 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 5348A 26.5 GHz Microwave Counter/Power Meter data sheet (Input 1 to 26.5 GHz). Shared Input 2 and power-meter architecture follows the 5347A/5348A family sheet.

### Available from Aumictech

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

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

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto: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.