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**Data Sheet**
August 14, 2026

AGILENT / KEYSIGHT

# Agilent / Keysight 8546A EMI Receiver, 9 kHz to 6.5 GHz

The HP/Agilent 8546A isaCISPR 16-1 compliant EMI test receiver covering 9 kHz to 6.5 GHz. OEM Agilent 8542E and 8546A EMI Test Receivers data sheet 5965-7096E and the 85462A user guide describeatwo-box system (85462A RF section plus 85460A RF filter section) with CISPR 200 Hz / 9 kHz / 120 kHz measurement bandwidths and simultaneous peak, quasi-peak, and average detectors. Commercial radiated and conducted emissions to CISPR, EN, FCC, VCCI, and VDE; high-speed ITE to 6.5 GHz; diagnostic EMI with the RF section used stand-alone. Cispr BandAExample: 9 kHz to 150 kHz with 200 Hz CISPR bandwidth Cispr BandBExample: 150 kHz to 30 MHz with 9 kHz CISPR bandwidth Cispr BandCExample: 30 MHz to 300 MHz with 120 kHz CISPR bandwidth Numeric rows from Agilent 8542E and 8546A EMI Test Receivers data sheet 5965-7096E and HP 85462A EMI Receiver user guide. Band 3 to 6.5 GHz is 8546A-only versus 8542E.

| | |
|---|---|
| MODEL<br>**Agilent / Keysight 8546A** | CALIBRATION<br>**Available on request** |
| CONDITION<br>**Used** | STATUS<br>**In stock** |
| RFQ / SKU<br>**8546A** | LISTING<br>**https://aumictechlabs.com/products/8546a-2/** |

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NAICS 423690 · 811210 · 541380

## This unit

The Agilent/Keysight 8546A is a specialized EMI receiver for electromagnetic interference compliance testing and electromagnetic compatibility measurements. Operating from 9 kHz to 6.5 GHz, it delivers simultaneous peak, quasi-peak, and average amplitude measurements across

three tuning bands. CISPR 16-1 compliant, the 8546A supports international standards including CISPR, EN, FCC, VCCI, and VDE, making it essential for modern high-speed equipment qualification.Technical Specifications Frequency Coverage 9 kHz to 6.5 GHz overall Band 1: 9 kHz to 50 MHz Band 2: 20 MHz to 2.9 GHz Band 3: 1 GHz to 6.5 GHz Amplitude Measurement Simultaneous peak, quasi-peak, and average detection Frequency Reference Aging: $<\pm 1 \times 10^{-7}$/year Settability: $<\pm 1 \times 10^{-8}$ Temperature stability (1 GHz to 6.5 GHz): $<\pm 1 \times 10^{-8}$ Input Handling Band 1: 2 kW peak for 10 µs (≥20 dB attenuation) Band 2: 100 W peak for <10 µs, <1% duty cycle (≥30 dB attenuation) Continuous: 137 dBµV (30 dBm) from 9 kHz to 6.5 GHz Peak pulsed (preamp off): 50 dBm (100 W) for 10 µs, 1% duty cycle DC coupled: 0 V; AC coupled: 50 V Power Supply 90–132 Vrms or 198–264 Vrms, 47–440 Hz On: <615 VA, <265 W (full); <500 VA, <180 W (RF section only) Off: <5 W Operating Conditions Temperature: 0 °C to +55 °C Probe power: +15 Vdc ±7% at 150 mA maxKey Features Three independent tuning bands eliminate dead zones Simultaneous amplitude detection modes accelerate EMI characterization Built-in spectrum analyzer and time-domain scan functionality Automated test routines reduce compliance cycle time Frequency reference stability ensures long-term measurement confidenceInterfaces & Integration HP-IB (GPIB) standard for remote control RS-232 available with Option 023 Type-N female connectors (tracking generator, calibrator signal) Calibrator signal: 300 MHz, –20 dBm ±0.4 dB Earphone jack for audio monitoring Compatible with Keysight 85422E/85462A external modules

# 8546A Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Model** | 8546A |
| **Instrument Type** | EMI test receiver |
| **Series Family** | Agilent 8542E/8546A |
| **Frequency Range** | 9 kHz to 6.5 GHz |
| **Tuning Band** | 20 MHz to 2.9 GHz |
| **Bypass Tuning Range** | 9 kHz to 6.5 GHz |
| **Rf Section Model** | 85462A |
| **Filter Section Model** | 85460A |
| **Cispr Measurement Bandwidths** | 200 Hz, 9 kHz, 120 kHz, 6 dB, CISPR Publication 16 |
| **Diagnostic If Bandwidths** | 30 Hz to 3 MHz in 1-3-10 sequence plus 5 MHz |
| **Diagnostic Filter Shape Factor** | 15:1 or less generally |
| **Detectors** | simultaneous peak, quasi-peak, and average |
| **Span Accuracy Span Greater 10 Mhz** | ±3 percent of span (data-sheet span table) |
| **Operating Temperature** | 0 C to +55 C |
| **Aux If Output Frequency** | 21.4 MHz, 50 ohm BNC |
| **Aux If Amplitude Range** | minus 10 to minus 60 dBm |
| **Reference Output** | 10 MHz, 0 dBm minimum |
| **External Reference Input** | 10 MHz, +2 dBm to +10 dBm |
| **Width** | 458 mm |
| **Height** | 368 mm |
| **Depth** | 644 mm |
| **Input 1 Frequency** | 9 kHz to 50 MHz |
| **Input 2 Frequency** | 20 MHz to 2.9 GHz and 1 GHz to 6.5 GHz |
| **Cispr BandAExample** | 9 kHz to 150 kHz with 200 Hz CISPR bandwidth |
| **Cispr BandBExample** | 150 kHz to 30 MHz with 9 kHz CISPR bandwidth |

| PARAMETER | VALUE |
| --- | --- |
| **Cispr BandCExample** | 30 MHz to 300 MHz with 120 kHz CISPR bandwidth |
| **Bandwidth** | Cispr BandBExample: 150 kHz to 30 MHz with 9 kHz CISPR bandwidth |

## General Specifications & Supplementary Characteristics

| PARAMETER | VALUE |
|---|---|
| **Operating temperature** | 0 C to +55 C |
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| **Aux If Output Frequency** | 21.4 MHz, 50 ohm BNC |
| **Aux If Amplitude Range** | minus 10 to minus 60 dBm |
| **Reference Output** | 10 MHz, 0 dBm minimum |
| **External Reference Input** | 10 MHz, +2 dBm to +10 dBm |
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| **Input 2 Frequency** | 20 MHz to 2.9 GHz and 1 GHz to 6.5 GHz |
| **Cispr BandAExample** | 9 kHz to 150 kHz with 200 Hz CISPR bandwidth |
| **Cispr BandBExample** | 150 kHz to 30 MHz with 9 kHz CISPR bandwidth |
| **Cispr BandCExample** | 30 MHz to 300 MHz with 120 kHz CISPR bandwidth Notes Numeric rows from Agilent 8542E and 8546A EMI Test Receivers data sheet 5965-7096E and HP 85462A EMI Receiver user guide. Band 3 to 6.5 GHz is 8546A-only versus 8542E. |

# 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** | 8546A |
| **Instrument Type** | EMI test receiver |
| **Series Family** | Agilent 8542E/8546A |
| **Frequency Range** | 9 kHz to 6.5 GHz |
| **Tuning Band 1** | 9 kHz to 50 MHz |
| **Tuning Band 2** | 20 MHz to 2.9 GHz |
| **Tuning Band 3** | 1 GHz to 6.5 GHz |
| **Bypass Tuning Range** | 9 kHz to 6.5 GHz |
| **Rf Section Model** | 85462A |
| **Filter Section Model** | 85460A |
| **Cispr Measurement Bandwidths** | 200 Hz, 9 kHz, 120 kHz, 6 dB, CISPR Publication 16 |
| **Diagnostic If Bandwidths** | 30 Hz to 3 MHz in 1-3-10 sequence plus 5 MHz |
| **Diagnostic Filter Shape Factor** | 15:1 or less generally |
| **Detectors** | simultaneous peak, quasi-peak, and average |
| **Span Accuracy Span Greater 10 Mhz** | ±3 percent of span (data-sheet span table) |
| **Operating Temperature** | 0 C to +55 C |
| **Aux If Output Frequency** | 21.4 MHz, 50 ohm BNC |
| **Aux If Amplitude Range** | minus 10 to minus 60 dBm |
| **Reference Output** | 10 MHz, 0 dBm minimum |
| **External Reference Input** | 10 MHz, +2 dBm to +10 dBm |
| **Width** | 458 mm |
| **Height** | 368 mm |
| **Depth** | 644 mm |
| **Input 1 Frequency** | 9 kHz to 50 MHz |
| **Input 2 Frequency** | 20 MHz to 2.9 GHz and 1 GHz to 6.5 GHz |
| **Cispr BandAExample** | 9 kHz to 150 kHz with 200 Hz CISPR bandwidth |

| PARAMETER | VALUE |
| --- | --- |
| **Cispr BandBExample** | 150 kHz to 30 MHz with 9 kHz CISPR bandwidth |
| **Cispr BandCExample** | 30 MHz to 300 MHz with 120 kHz CISPR bandwidth |

Notes
Numeric rows from Agilent 8542E and 8546A EMI Test Receivers data sheet 5965-7096E and HP 85462A EMI Receiver user guide. Band 3 to 6.5 GHz is 8546A-only versus 8542E.

## 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

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Generated August 14, 2026