

KEYSIGHT TECHNOLOGIES (AGILENT HP)

83484A

The Keysight (Agilent) 83484A is a dual-channel electrical sampling module designed for high-speed digital communications analysis. Featuring two electrical channels with selectable bandwidths of 26.5 GHz and 50 GHz, it provides flexibility to optimize either for low noise or high-fidelity signal measurement.

SPECIFICATIONS

Physical

Power Supply	Powered directly through the mainframe slot
Operating Temperature	15 °C to 35 °C °C
Dimensions (W×H×D)	77 mm × 183 mm × 282 mm mm
Weight	1.36 kg kg

Signal Input Characteristics

Number of Channels	2
Connector Type	2.4 mm (male)
Maximum Safe Input Voltage	± 2 Vdc
Nominal Input Impedance	50 Ω

Bandwidth and Time Domain Performance

Electrical Bandwidth Settings	26.5 GHz or 50 GHz (user-selectable)
-------------------------------	--------------------------------------

Vertical and Amplitude Specifications

Characteristic RMS Noise (26.5 GHz BW)	0.25 mV
Characteristic RMS Noise (50 GHz BW)	0.45 mV
Scale Factor Range	1 mV/div to 100 mV/div

Physical and Mechanical Specifications

Mainframe Compatibility	HP/Agilent 83480A, 54750A, and Keysight 86100A/B/C Infiniium DCA series
-------------------------	---

Performance

Calculated Rise Time (50 GHz)	≤ 7.0 ps
Calculated Rise Time (26.5 GHz)	≤ 13.2 ps
Channel Offset Range	±500 mV

Electrical Specifications

Channel-to-Channel Isolation (DC to 26.5 GHz)	≥ 50 dB
Channel-to-Channel Isolation (26.5 GHz to 50 GHz)	≥ 40 dB
Dynamic Range	±400 mV (relative to channel offset)
Input Coupling	DC

Reflections & Aberrations

Reflection Coefficient (DC to 26.5 GHz)	≤ 5%
Reflection Coefficient (26.5 to 50 GHz)	≤ 10%

TECHNOLOGY

Electrical Sampling

APPLICATIONS

High-speed digital communications analysis, eye diagram and jitter measurements

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.