

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85044A

The Keysight (Agilent HP) 85044A is a 50-ohm transmission/reflection test set designed to measure the reflection and transmission characteristics of 50-ohm devices. Operating over a frequency range of 300 kHz to 3 GHz, it features a precision 7 mm test port and Type-N female connectors for all other interfaces. It is designed specifically for compatibility with the Agilent 8753A, 8753B, and 8753C vector network analyzers, as well as the 8753D Option 011.

SPECIFICATIONS

General

Interfaces	RF Input (Type-N female), Test Port (Precision 7 mm), Transmission Port (Type-N female)
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Physical

Power Supply	None (passive device)
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	425 mm x 132 mm x 505 mm mm
Weight	7.3 kg

RF Performance

Frequency Range	300 kHz to 3 GHz
Impedance	50 ohms
Directivity (300 kHz to 1.3 GHz)	≥ 40 dB
Directivity (1.3 GHz to 3.0 GHz)	≥ 35 dB

RF Connections

Test Port Connector	Precision 7 mm
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System Compatibility

Compatible Analyzers	Agilent 8753A, 8753B, 8753C, 8753D Option 011 only
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Functional Capabilities

Measurement Capabilities	Simultaneous measurement of reflection and transmission characteristics (device must be physically reversed for reverse direction)
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Electrical Performance

Equivalent Source Match (300 kHz to 1.3 GHz)	≥ 30 dB
Equivalent Source Match (1.3 GHz to 3.0 GHz)	≥ 25 dB
Equivalent Load Match (300 kHz to 1.3 GHz)	≥ 40 dB
Equivalent Load Match (1.3 GHz to 3.0 GHz)	≥ 35 dB

Connectors

RF Input Connector	50 Ω Type-N female
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Performance

Transmission Tracking (300 kHz to 1.3 GHz)	± 1.5 dB magnitude, $\pm 10^\circ$ phase
Transmission Tracking (1.3 GHz to 3.0 GHz)	± 2.5 dB magnitude, $\pm 15^\circ$ phase
Reflection Tracking (300 kHz to 1.3 GHz)	± 1.5 dB magnitude, $\pm 10^\circ$ phase
Reflection Tracking (1.3 GHz to 3.0 GHz)	± 2.5 dB magnitude, $\pm 15^\circ$ phase
Maximum Operating Input Level	+20 dBm

DC Bias

Maximum DC Bias Voltage	30 VDC
Maximum DC Bias Current	200 mA
DC Bias Input Connector	BNC female

Inputs & Outputs

Reference (R) Output Connector	Type-N female
Test (A) Output Connector	Type-N female

TECHNOLOGY

Transmission/Reflection Test Set

APPLICATIONS

S-parameter measurement (reflection and transmission) of 50-ohm RF devices

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