

KEYSIGHT TECHNOLOGIES (AGILENT HP)

41952A

The Keysight (formerly Agilent / HP) 41952A is a 50 Ω Transmission/Reflection Test Set designed for use with the HP 4195A Network/Spectrum Analyzer. Operating over a frequency range of 100 kHz to 500 MHz, it enables convenient transmission and reflection measurements, and features a DC bias input for testing components under bias.

SPECIFICATIONS

General

Interfaces	None (Passive RF device)
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Physical

Power Supply	None (Passive device)
Operating Temperature	0 °C to 55 °C °C
Dimensions (W×H×D)	190 mm × 55 mm × 250 mm mm
Weight	1.5 kg kg

Frequency & Impedance

Frequency Range	100 kHz to 500 MHz
Nominal Impedance	50 Ω

Port Configurations & Connectors

RF Input Connector Type	N-type (female), 50 Ω
Test Port Connector Type	N-type (female), 50 Ω
Reference Port Connector Type	N-type (female), 50 Ω
Test Output Port Connector Type	N-type (female), 50 Ω
DC Bias Input Port Type	BNC (female)

Electrical & DC Bias Limits

Maximum DC Bias Voltage	±40 V
Maximum DC Bias Current	±100 mA

Compatibility & Accessories

Compatible Host Network Analyzer	HP 4195A
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Environmental

Operating Humidity	≤ 95% RH @ 40 °C (non-condensing)
Storage Temperature	-40 °C to 70 °C

Performance

Equivalent Directivity	≥ 40 dB (100 kHz to 500 MHz, after calibration)
Equivalent Source Match	≥ 30 dB (100 kHz to 500 MHz, after calibration)
Nominal Insertion Loss	10 dB (from input to test or reference port)
Equivalent Load Match	>= 30 dB (100 kHz to 200 MHz), >= 26 dB (200 MHz to 500 MHz)

RF Specifications

Maximum RF Input Power	+20 dBm
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Power

Power Requirements	None (passive)
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TECHNOLOGY

RF Transmission/Reflection Test Set

APPLICATIONS

Network Analysis, RF Device Characterization

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