

KEYSIGHT TECHNOLOGIES (AGILENT HP)

87512A

The Keysight (Agilent HP) 87512A is a 50 Ω Transmission/Reflection Test Kit designed to measure the transmission and reflection characteristics of RF devices. Operating from DC up to 2 GHz, it integrates with Agilent network analyzers to deliver stable, accurate measurements and comes furnished with precision short and load standards for system calibration.

SPECIFICATIONS

General

Device Type	Passive Transmission/Reflection Test Set
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Physical

Power Supply	None (passive device)
Operating Temperature	0 °C to 55 °C °C
Dimensions (W×H×D)	180 mm × 61 mm × 187 mm mm
Weight	1.5 kg kg

RF Port & Frequency Characteristics

Frequency Range	DC to 2 GHz
Nominal Impedance	50 Ω

Connectors & Interfaces

Test Port Connector Type	Type-N (female)
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Configuration & Accessories

Companion Network Analyzer Models	Agilent / HP network analyzers
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RF Performance

Directivity	≥ 40 dB (300 kHz to 2 GHz), ≥ 30 dB (100 kHz to 300 kHz)
Equivalent Source Match	≥ 40 dB (300 kHz to 2 GHz), ≥ 35 dB (100 kHz to 300 kHz)
Equivalent Load Match	≥ 40 dB (300 kHz to 2 GHz), ≥ 35 dB (100 kHz to 300 kHz)
Nominal Insertion Loss	10 dB (nominal) for all paths

Connectors

RF Input Connector	50 Ω Type-N (female)
Reflection Output Connector	50 Ω Type-N (female)
Transmission Output Connector	50 Ω Type-N (female)

Operating Limits

Maximum Operating Input Level	+20 dBm
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Performance

RF Input to Test Port Insertion Loss	10 dB (nominal)
RF Input to Reflection Output Insertion Loss	10 dB (nominal)

TECHNOLOGY

RF Transmission/Reflection Measurement

APPLICATIONS

Reflection and transmission characterization of 50 Ω 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.