

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85025D

The Keysight (Agilent) 85025D is a high-performance coaxial detector designed for operation with scalar network analyzers. It features a wide frequency range of 10 MHz to 50 GHz, offering both AC and DC detection modes.

SPECIFICATIONS

Physical

Power Supply	Supplied by network analyzer via interface cable
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	19 mm × 17 mm × 102 mm mm
Weight	0.24 kg
Cable Length	1.22 m
Shipping Weight	1.0 kg

RF Performance

Frequency Range	10 MHz to 50 GHz
Nominal Impedance	50 Ω
Return Loss (10 MHz to 40 MHz)	10 dB
Return Loss (40 MHz to 100 MHz)	20 dB
Return Loss (40 GHz to 50 GHz)	9 dB
Frequency Response (10 MHz to 40 MHz)	+0.25 / -0.75 dB

Power & Sensitivity

Dynamic Range (AC Mode)	+16 to -55 dBm
Dynamic Range (DC Mode)	+16 to -50 dBm
Maximum Input Power	+20 dBm (100 mW)
Maximum DC Input Voltage	±10 VDC

Compatibility & Configurations

Detection Modes	AC (modulated) or DC (unmodulated)
Compatible Network Analyzers	Agilent 8757D (not compatible with 8756 or 8755)

Physical & Interface

Input RF Connector Type	2.4 mm (male)
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Environmental

Storage Temperature	-40 to +75 °C
Operating Humidity	Up to 95% RH @ 40 °C (non-condensing)
Maximum Operating Altitude	4,600 m (15,000 ft)
Maximum Storage Altitude	15,200 m (50,000 ft)

Connectivity

Output Interface	Proprietary multi-pin cable for HP/Keysight 8757 series connection
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Performance

Diode Technology	GaAs Planar Doped Barrier (PDB)
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TECHNOLOGY

Diode Detection

APPLICATIONS

Scalar Network Analysis

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