

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85027D

The Keysight (Agilent) 85027D directional bridge is a high-performance RF and microwave measurement accessory designed for reflection measurements up to 50 GHz in coaxial systems. It features high directivity, excellent test port match, and an integrated detector that supports both AC and DC detection modes when paired with compatible scalar network analyzers.

SPECIFICATIONS

Physical

Power Supply	Power supplied directly by host scalar network analyzer
Operating Temperature	0 to 55 °C

RF Performance

Frequency Range	10 MHz - 50 GHz
Maximum Continuous RF Input Power (CW)	+23 dBm

Port Characteristics & Impedance

Nominal Impedance	50 Ω
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Detector & Signal Processing Characteristics

Signal Detection Modes	AC and DC (dependent on scalar network analyzer used)
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Interface & Connector Configurations

RF Input Connector Type	2.4 mm
RF Input Connector Gender	Female
Test Port Connector Type	2.4 mm

System Compatibility & Calibration

Compatible Scalar Network Analyzers (AC & DC Modes)	Keysight / Agilent 8757
Compatible Scalar Network Analyzers (AC Mode Only)	Keysight / Agilent 8756, 8755

Environmental Specifications

Storage Temperature Range	-40 to +75 °C
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TECHNOLOGY

RF/Microwave Directional Bridge with Integrated Detector

APPLICATIONS

Reflection measurements with scalar network analyzers

