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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 85027E Directional Bridge, 10 MHz to 26.5 GHz

HP / Agilent 85027E Directional Bridge, 10 MHz to 26.5 GHz The HP / Agilent 85027E is a 50-ohm directional bridge for use with the HP 8757 scalar network analyzer family in AC or DC detection modes. It covers 10 MHz to 26.5 GHz with 3.5 mm connectors (female input, male test port) and high directivity for microwave reflection measurements. The HP / Agilent 85027E is a 50-ohm directional bridge for use with the HP 8757 scalar network analyzer family in AC or DC detection modes. It covers 10 MHz to 26.5 GHz with 3.5 mm connectors (female input, male test port) and high directivity for microwave reflection measurements.



MODEL

**HP / Agilent
85027E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85027E

LISTING

<https://aumictechlabs.com/products/85027e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 85027E Directional Bridge is a precision reflection measurement instrument operating from 10 MHz to 26.5 GHz. It delivers high directivity and excellent test port match for accurate characterization of RF and microwave components. The bridge integrates directly with scalar network analyzers - supporting AC and DC detection modes on the Agilent 8757, and AC detection on the Agilent 8756 and 8755 - making it essential for return loss and reflection coefficient measurements across demanding test environments. Technical Specifications
Frequency Range: 10 MHz to 26.5 GHz Impedance: 50 ohms Test Port Connector: 3.5 mm male

(SMA compatible) Detector Mode Support: AC and DC modes (8757); AC mode (8756, 8755)Key Features High directivity for precision reflection measurements Excellent test port match minimizing measurement error 50 ohm impedance matching standard RF/microwave systems Dual detection capability supports both AC and DC measurement scenariosMeasurement Capabilities The 85027E measures reflection coefficients and return loss across its full frequency range. AC detection mode operates effectively in the presence of broadband noise and electromagnetic interference, while DC mode enables characterization of modulation-sensitive devices such as gain-controlled amplifiers.Compatibility & Integration Compatible Scalar Network Analyzers:Agilent 8757 (AC or DC detection)Agilent 8756 (AC detection)Agilent 8755 (AC detection) Operating and service manuals are available for installation, operation, and maintenance guidance.

Features & description

From manufacturer datasheet

Features

- Frequency 10 MHz to 26.5 GHz • 50 ohm nominal impedance • Input 3.5 mm (f); test port 3.5 mm (m)
- Directivity 40 dB to 20 GHz; 36 dB 20–26.5 GHz • Designed for HP 8757 AC/DC detection • Max input class 23 dBm, 10 Vdc (reseller)

Applications

- Scalar network analyzer reflection / return-loss measurements • Component characterization to 26.5 GHz • AC/DC detection mode setups with 8757 series • Precision coaxial bridge measurements with 3.5 mm test port

85027E Characteristics / Specifications

PARAMETER	VALUE
Model	85027E
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Directional Bridge
Frequency Range	10 MHz to 26.5 GHz
Nominal Impedance	50 Ω
Input Connector	3.5 mm female
Test Port Connector	3.5 mm male
Directivity 0.	20 GHz: 40 dB
Directivity	26.5 GHz: 36 dB
Test Port Match 0.	8.4 GHz: SWR <1.15
Test Port Match 8.	20 GHz: SWR <1.43
Test Port Match	26.5 GHz: SWR <1.78
Detection Mode Support	AC and DC with HP 8757
Max Input Power Class	23 dBm
Max DC Input Class	10 Vdc
Product Family	HP 85027 series directional bridges
Compatible Analyzer Family	HP 8757 scalar analyzers
Measurement Role	Directional reflection sensing
System	Coaxial 50 Ω Notes Specs from HP/Agilent 85027 series directional bridge summary tables for use with 8757. Confirm connector genders and measured directivity on the unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	85027E
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Directional Bridge
Frequency Range	10 MHz to 26.5 GHz
Nominal Impedance	50 Ω
Input Connector	3.5 mm female
Test Port Connector	3.5 mm male

Directivity 0.01–20 GHz: 40 dB
Directivity 20–26.5 GHz: 36 dB
Test Port Match 0.01–8.4 GHz: SWR <1.15
Test Port Match 8.4–20 GHz: SWR <1.43
Test Port Match 20–26.5 GHz: SWR <1.78

Specifications

PARAMETER	VALUE
Detection Mode Support	AC and DC with HP 8757
Max Input Power Class	23 dBm
Max DC Input Class	10 Vdc
Product Family	HP 85027 series directional bridges
Compatible Analyzer Family	HP 8757 scalar analyzers
Measurement Role	Directional reflection sensing
System	Coaxial 50 Ω

Notes
Specs from HP/Agilent 85027 series directional bridge summary tables for use with 8757. Confirm connector genders and measured directivity on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.