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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85027B

HP Agilent 85027B Directional Bridge 10 MHz to 26.5 GHz 3.5 mm The HP 85027B is a 50 ohm AC/DC directional bridge for 8757/8756/8755 scalar analyzers. OEM 85027 series directional-bridge table lists 10 MHz to 26.5 GHz, 3.5 mm female input and test port, 40 dB directivity to 20 GHz and 36 dB from 20 to 26.5 GHz, and test-port SWR less than 1.15 to 8.4 GHz. Swept reflection measurements on 3.5 mm devices with HP 8757 AC or DC detection. Test Port Swr 0.01 To 8.4 Ghz: less than 1.15 The HP 85027B is a 50 ohm AC/DC directional bridge for 8757/8756/8755 scalar analyzers. OEM 85027 series directional-bridge table lists 10 MHz to 26.5 GHz, 3.5 mm female input and test port, 40 dB directivity to 20 GHz and 36 dB from 20 to 26.5 GHz, and test-port SWR less than 1.15 to 8.4 GHz. Swept reflection measurements on 3.5 mm devices with HP 8757 AC or DC detection. Test Port Swr 0.01 To 8.4 Ghz: less than 1.15 Test Port Swr 8.4 To 20 Ghz: less than 1.43



MODEL

**Agilent / Keysight
85027B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85027B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85027B is a precision directional bridge for RF and microwave scalar reflection measurements across the 10 MHz to 26.5 GHz band. This 50 ohm instrument delivers high directivity and excellent test port match, enabling accurate characterization of components and systems with Keysight scalar network analyzers including the 8757, 8756, and 8755 series

platforms. Technical Specifications Frequency Range: 10 MHz to 26.5 GHz Impedance: 50 ohms Directivity: 40 dB typical from 0.01 to 20 GHz 36 dB from 20 to 26.5 GHz Test Port Match (SWR): <1.15 from 0.01 to 8.4 GHz <1.43 from 8.4 to 20 GHz <1.78 from 20 to 26.5 GHz Insertion Loss: 6.5 dB at 10.0 MHz 8.0 dB at 18.0 GHz 10.0 dB at 26.5 GHz Maximum Input Power: +23 dBm or +10 Volts Typical Minimum Input Power (40 dB Return Loss): +2 dBm at 18 GHz Connectors: 3.5 mm female (RF input and test port) Key Features Dual detection capability supports both AC and DC signal modes depending on analyzer configuration Compact form factor: 26 mm H × 124 mm W × 118 mm D, 0.5 kg net weight Superior directivity performance maintains measurement accuracy across extended frequency coverage Test port match performance scaled across operating band minimizes reflection uncertainty Typical Applications Component reflection and return loss characterization System impedance matching verification Cable and connector quality assessment Filter and amplifier reflection measurements Compatibility & Integration Operates with Keysight scalar network analyzers: 8757 series (AC/DC detection modes), 8756 series (AC detection mode), and 8755 series (AC detection mode). Supplied with 3.5 mm male open/short standard, male-to-male adapter, and male-to-female adapter.

85027B Characteristics / Specifications

PARAMETER	VALUE
Model	85027B
Instrument Type	Directional bridge
Frequency Range	10 MHz to 26.5 GHz
Nominal Impedance	50 ohm
Input Connector	3.5 mm female
Test Port Connector	3.5 mm female
Directivity 0.01 To 20 Ghz	40 dB
Directivity 20 To 26.5 Ghz	36 dB
Test Port Swr 0.01 To 8.4 Ghz	less than 1.15
Test Port Swr 8.4 To 20 Ghz	less than 1.43
Test Port Swr 20 To 26.5 Ghz	less than 1.78
Host Analyzers Ac Dc	HP 8757
Host Analyzers Ac Only	HP 8756 and 8755
Detection Modes	AC (modulated RF) or DC (unmodulated RF) with 8757
Included Open	3.5 mm male open
Manufacturer	HP Agilent Keysight
Series Family	85027A/B/C/D/E
Minimum Frequency	10 MHz
Maximum Frequency	26.5 GHz
Bridge Type	high directivity scalar reflection bridge
Mechanical Package	coaxial directional bridge
Calibration Accessory Code	UK6 commercial calibration when ordered

85027B Specifications

PARAMETER	VALUE
Applications	Swept reflection measurements on 3.5 mm devices with HP 8757 AC or DC detection.
Key Features	AC or DC detection with 8757
AC detection with 8756 and 8755	40 dB directivity to 20 GHz
Precision 3.5 mm female test port	Includes 3.5 mm male open
Technical Specifications	Model: 85027B

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	
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Notes	
From HP 85027 series directional bridge summary table (8757 catalog / R85026A family sheet) row 85027B. Switch the bridge AC/DC mode to match the scalar analyzer.	

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

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NIST-traceable calibration · SAM registered ·
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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.