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Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 85021B Microwave Directional Bridge 10MHz to 26.5GHz

The HP/Agilent 85021B is a microwave directional bridge designed for precision measurements in the 10 MHz to 26.5 GHz frequency range. It enables accurate signal separation and reflection measurements, making it suitable for testing microwave components and systems.

**MODEL****HP / Agilent
85021B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****85021B****LISTING**<https://aumictechlabs.com/products/85021b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 85021B is a precision microwave directional bridge for reflection and transmission measurements spanning 10 MHz to 26.5 GHz. Operating at 50 ohms nominal impedance, this instrument delivers directivity exceeding 35 dB across its frequency range with insertion loss below 1.5 dB typical. It integrates a zero-bias Schottky diode detector for return loss measurement and accepts RF input up to +23 dBm. The 85021B connects via APC-3.5 Female connectors and pairs with HP/Agilent Scalar Network Analyzers to characterize microwave components, verify system performance, and execute ratio measurements when combined with external power splitting and detection circuits. Its compact form factor - 15 mm H × 110 mm W × 96 mm D, weighing 0.5 kg - suits laboratory, research, and field measurement environments where precise reflection and transmission data are critical to design validation and troubleshooting workflows. Technical Specifications Frequency Range: 10 MHz to 26.5 GHz Nominal Impedance:

50 ohms Directivity: 36 dB (0.01–0.04 GHz and 20–26.5 GHz); 40 dB (0.04–20 GHz); typical >35 dB Insertion Loss: <1.5 dB (typical) Maximum Input Power: +23 dBm Internal Detector: One zero-bias Schottky diode Connectors: APC-3.5 Female (input, output, test port) Dimensions: 15 H × 110 W × 96 mm Weight: 0.5 kg (net)Key Features Return loss measurement via integrated Schottky detector Transmission measurements with optional external detector Ratio measurement capability using power splitter and detector High directivity maintained across three frequency bands Compact, rugged constructionTypical Applications Reflection and transmission characterization of microwave components Return loss verification and system diagnostics Scalar network analysis and impedance measurementCompatibility & Integration Designed for use with HP/Agilent Scalar Network Analyzers including the 8757A, 8756A, and 8755C.

Features & description

From manufacturer datasheet

Technical Specifications

Frequency Range: 10 MHz to 26.5 GHz Nominal Impedance: 50 ohms Directivity: 36 dB (0.01–0.04 GHz and 20–26.5 GHz); 40 dB (0.04–20 GHz); typical >35 dB Insertion Loss: <1.5 dB (typical) Maximum Input Power: +23 dBm Internal Detector: One zero-bias Schottky diode Connectors: APC-3.5 Female (input, output, test port) Dimensions: 15 H × 110 W × 96 mm Weight: 0.5 kg (net)

Key Features

Return loss measurement via integrated Schottky detector Transmission measurements with optional external detector Ratio measurement capability using power splitter and detector High directivity maintained across three frequency bands Compact, rugged construction

HP / Agilent 85021B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the HP / Agilent 85021B. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

HP / Agilent 85021B price

This HP / Agilent 85021B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

HP / Agilent 85021B calibration cost

NIST-traceable calibration for the HP / Agilent 85021B is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Reflection and transmission characterization of microwave components Return loss verification and system diagnostics Scalar network analysis and impedance measurement Compatibility & Integration Designed for use with HP/Agilent Scalar Network Analyzers including the 8757A, 8756A, and 8755C.

Unit notes

The HP/Agilent 85021B is a precision microwave directional bridge for reflection and transmission measurements spanning 10 MHz to 26.5 GHz. Operating at 50 ohms nominal impedance, this instrument delivers directivity exceeding 35 dB across its frequency range with insertion loss below 1.5

dB typical. It integrates a zero-bias Schottky diode detector for return loss measurement and accepts RF input up to +23 dBm. The 85021B connects via APC-3.5 Female connectors and pairs with HP/Agilent Scalar Network Analyzers to characterize microwave components, verify system performance, and execute ratio measurements when combined with external power splitting and detection circuits. Its compact form factor - 15 mm H × 110 mm W × 96 mm D, weighing 0.5 kg - suits laboratory, research, and field measurement environments where precise reflection and transmission data are critical to design validation and troubleshooting workflows.

Technical Specifications

Frequency Range:	10 MHz to 26.5 GHz
Nominal Impedance:	50 ohms
Directivity:	36 dB (0.01–0.04 GHz and 20–26.5 GHz); 40 dB (0.04–20 GHz); typical >35 dB
Insertion Loss:	<1.5 dB (typical)
Maximum Input Power:	+23 dBm
Internal Detector:	One zero-bias Schottky diode
Connectors:	APC-3.5 Female (input, output, test port)
Dimensions:	15 H × 110 W × 96 mm
Weight:	0.5 kg (net)

Key Features

- Return loss measurement via integrated Schottky detector
- Transmission measurements with optional external detector
- Ratio measurement capability using power splitter

85021B Specifications

PARAMETER	VALUE
Frequency Range	10 MHz to 26.5 GHz Power Range (dBm): '+23 dBm

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.

The HP/Agilent 85021B is a microwave directional bridge designed for precision measurements in the 10 MHz to 26.5 GHz frequency range. It enables accurate signal separation and reflection measurements, making it suitable for testing microwave components and systems.

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The 85021B connects via APC-3.5 Female connectors and pairs with HP/Agilent Scalar Network Analyzers to characterize microwave components, verify system performance, and execute ratio measurements when combined with external power splitting and detection circuits. Its compact form factor - 15 mm H x 110 mm W x 96 mm D, weighing 0.5 kg - suits laboratory, research, and field measurement environments where precise reflection and transmission data are critical to design validation and troubleshooting workflows.

Compatibility & Integration Designed for use with HP/Agilent Scalar Network Analyzers including the 8757A, 8756A, and 8755C.

85021B Specifications

PARAMETER	VALUE
Frequency Range	10 MHz to 26.5 GHz Power Range (dBm): '+23 dBm

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Internal Detector: One zero-bias Schottky diode Connectors: APC-3.5 Female (input, output, test port)

Dimensions: 15 H x 110 W x 96 mm Weight: 0.5 kg (net)

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Request Calibration → Request Repair Quote →

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Applications

Reflection and transmission characterization of microwave components Return loss verification and system diagnostics Scalar network analysis and impedance measurement

Compatibility & Integration Designed for use with HP/Agilent Scalar Network Analyzers including the 8757A, 8756A, and 8755C.

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.