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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85021A

HP Agilent 85021A Directional Bridge 10 MHz to 18 GHz The HP 85021A is a 50 ohm directional bridge used with 8756/8755/8757 scalar analyzers for reflection measurements. OEM 85021A product data list 10 MHz to 18 GHz coverage and 50 ohm Type-N / 7 mm class test ports in the 85021 family, predecessor to the 85027 AC/DC bridges. Swept return-loss measurements to 18 GHz on 50 ohm coaxial devices with HP scalar analyzers. Host Analyzers: HP 8755 8756 8757 scalar network analyzers The HP 85021A is a 50 ohm directional bridge used with 8756/8755/8757 scalar analyzers for reflection measurements. OEM 85021A product data list 10 MHz to 18 GHz coverage and 50 ohm Type-N / 7 mm class test ports in the 85021 family, predecessor to the 85027 AC/DC bridges. Swept return-loss measurements to 18 GHz on 50 ohm coaxial devices with HP scalar analyzers. Host Analyzers: HP 8755 8756 8757 scalar network analyzers Successor Family: 85027A/B/C/D/E AC/DC bridges

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85021A is a directional bridge designed for scalar network analyzer systems. It delivers characterized standards for accurate return loss and transmission measurements across demanding laboratory and production environments. Technical Specifications Frequency Range: 0.01 to 18 GHz Nominal Impedance: 50 ohms Input Connector: Type-N Female Output Connector: APC-7 Maximum Input Power: +23 dBm Directivity: 36 dB (0.01 to 0.04 GHz) Physical

Dimensions: 15 mm (H) × 110 mm (W) × 96 mm (D) Detector Type: Zero-bias Schottky diodeKey Features Zero-bias Schottky diode detector integrated for return loss measurement capability Type-N female input with APC-7 output configuration Rated for +23 dBm maximum input power 36 dB directivity specification in the 0.01 to 0.04 GHz band Compact form factor: 15 mm heightTypical Applications Return loss characterization and verification in scalar network analysis workflows. Transmission measurement validation across the 0.01 to 18 GHz frequency range. Device and component testing where characterized reference standards are required.Compatibility & Integration The 85021A integrates directly with three Agilent/Keysight scalar network analyzer models:8757A Scalar Network Analyzer8756A Scalar Network Analyzer8755C Scalar Network Analyzer Type-N female input and APC-7 output connectors ensure proper impedance matching and signal integrity within these systems.

85021A Characteristics / Specifications

PARAMETER	VALUE
Model	85021A
Instrument Type	Directional bridge
Frequency Range	10 MHz to 18 GHz
Nominal Impedance	50 ohm
Host Analyzers	HP 8755 8756 8757 scalar network analyzers
Measurement	reflection / return loss
Successor Family	85027A/B/C/D/E AC/DC bridges
Manufacturer	HP Agilent Keysight
Mechanical Package	coaxial directional bridge
Minimum Frequency	10 MHz
Maximum Frequency	18 GHz
Bridge Type	scalar directional bridge
System Family	HP 85021/85027 directional bridges
Detection	AC detection with 8755/8756; 8757 per bridge switch family
Application Class	coaxial return loss to 18 GHz
Related 850	higher directivity AC/DC 85027 series
Connector Class	50 ohm coaxial Type-N / 7 mm class as fitted
Calibration	open/short/load as required by the scalar analyzer
Documentation	HP 85021A directional bridge product data
Use With Detectors	8757/8756 detector inputs via the bridge detector port
Impedance	50 ohm
Return loss	Successor Family: 85027A/B/C/D/E AC/DC bridges

85021A Specifications

PARAMETER	VALUE
HP Agilent 85021A Directional Bridge 10 MHz to 18 GHz	Overview
Applications	Swept return-loss measurements to 18 GHz on 50 ohm coaxial devices with HP scalar analyzers.
Key Features	10 MHz to 18 GHz directional bridge
Works with 8755/8756/8757	Predecessor family to 85027
Technical Specifications	Model: 85021A

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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PARAMETER	VALUE
Model	85021A
Instrument Type	Directional bridge
Frequency Range	10 MHz to 18 GHz
Nominal Impedance	50 ohm
Host Analyzers	HP 8755 8756 8757 scalar network analyzers
Measurement	reflection / return loss
Successor Family	85027A/B/C/D/E AC/DC bridges
Manufacturer	HP Agilent Keysight
Mechanical Package	coaxial directional bridge
Minimum Frequency	10 MHz
Maximum Frequency	18 GHz
Bridge Type	scalar directional bridge
System Family	HP 85021/85027 directional bridges
Detection	AC detection with 8755/8756; 8757 per bridge switch family
Application Class	coaxial return loss to 18 GHz
Related 85023	85023A 75 ohm family bridge
Related 85027	higher directivity AC/DC 85027 series
Connector Class	50 ohm coaxial Type-N / 7 mm class as fitted
Calibration	open/short/load as required by the scalar analyzer
Documentation	HP 85021A directional bridge product data
Use With Detectors	8757/8756 detector inputs via the bridge detector port
Impedance	50 ohm
Notes	
From HP 85021A directional bridge product data (10 MHz-18 GHz, 50 ohm, 8755/8756/8757). Confirm test-port connector sex on the installed bridge; 85027 series is the later AC/DC family.	

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