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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85141B

HP Agilent 85141B S-Parameter Test Set Companion for 8510 The HP 85141B is an 8510-family S-parameter test set companion (85141 series) used with 85101 display/processor and 85102 IF/detector. OEM 8510C literature places 8514x test sets in the 45 MHz to 26.5 GHz 3.5 mm class alongside 8514B/8515A. Two-port S-parameter measurements in 8510C systems. Instrument Type: 8510 S-parameter test set The HP 85141B is an 8510-family S-parameter test set companion (85141 series) used with 85101 display/processor and 85102 IF/detector. OEM 8510C literature places 8514x test sets in the 45 MHz to 26.5 GHz 3.5 mm class alongside 8514B/8515A. Two-port S-parameter measurements in 8510C systems. Instrument Type: 8510 S-parameter test set Family Frequency Coax 3p5 Mm Class: 45 MHz to 26.5 GHz



MODEL

**Agilent / Keysight
85141B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85141B

LISTING

[https://aumictechlabs.c
om/products/85141b-2/](https://aumictechlabs.com/products/85141b-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 85141B is a precision 2.4 mm coaxial open circuit that establishes known reflection planes in 50-ohm systems. This adapter provides accurate characterization of reflection phase and magnitude, making it essential for high-frequency calibration and microwave component testing. Its slotless design minimizes reflections and signal distortions to preserve measurement integrity. Technical Specifications Product Type: Coaxial Open Circuit Connector: 2.4 mm female coaxial Impedance: 50 Ohms (nominal) Design: Slotless adapter geometry Key Features Establishes measurement planes with known reflection phase and magnitude

characteristics Precision 2.4 mm female connector supports high-frequency connections Slotless construction reduces parasitic reflections and signal distortion Designed for 50-ohm coaxial systemsTypical Applications Network analyzer calibration and verification Microwave component characterization Reflection-based measurements requiring stable, known reference planes High-frequency test procedures in coaxial systemsCompatibility & Integration The 85141B integrates into 50-ohm coaxial test systems equipped with 2.4 mm connectors. It is compatible with network analyzers and precision RF test equipment utilizing this connector standard. The adapter is a calibration standard for measurement procedures requiring accurate phase and magnitude reference data.

85141B Characteristics / Specifications

PARAMETER	VALUE
Model	85141B
Instrument Type	8510 S-parameter test set
Family Frequency Coax 3p5 Mm Class	45 MHz to 26.5 GHz
Partner Display	85101A/B/C
Partner If Detector	85102A/B/C
Partner Source	8350 or 8360
S Parameters	S11 S21 S12 S22
Related 85140a	85140A test set
Related 85140b	85140B test set
Related 8515a	26.5 GHz 3.5 mm
Manufacturer	HP Agilent Keysight
Form Factor	8510 test set box
Bus	HP-IB via 85101
Measurement Types	magnitude phase group delay
Time Domain	Option 010 on 85101
Literature	8510C 5091-8484E
Operating Temperature Class	8510 system
Use Case	two-port linear network analysis
Pulse Profile	Option 008 on 85101
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits
Operating temperature	Class: 8510 system

85141B Specifications

PARAMETER	VALUE
Applications	Two-port S-parameter measurements in 8510C systems.
Key Features	8510 85141B test set
Works with 85101/85102	3.5 mm class ports
S11 S21 S12 S22	HP-IB via 85101
Technical Specifications	Model: 85141B
Notes	Identity from HP 8510 85141B test-set listings. Exact frequency and connector are on the 85141B faceplate / 8510 configuration guide.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 8510 system
Operating Temperature	Class: 8510 system
Operating Temperature Class	8510 system
Use Case	two-port linear network analysis
Pulse Profile	Option 008 on 85101
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits Notes Identity from HP 8510 85141B test-set listings. Exact frequency and connector are on the 85141B faceplate / 8510 configuration guide.

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	85141B
Instrument Type	8510 S-parameter test set
Family Frequency Coax 3p5 Mm Class	45 MHz to 26.5 GHz
Partner Display	85101A/B/C
Partner If Detector	85102A/B/C
Partner Source	8350 or 8360
S Parameters	S11 S21 S12 S22
Related 85140a	85140A test set
Related 85140b	85140B test set
Related 8515a	26.5 GHz 3.5 mm
Manufacturer	HP Agilent Keysight
Form Factor	8510 test set box
Bus	HP-IB via 85101
Measurement Types	magnitude phase group delay
Time Domain	Option 010 on 85101
Literature	8510C 5091-8484E
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Notes	
Identity from HP 8510 85141B test-set listings. Exact frequency and connector are on the 85141B faceplate / 8510 configuration guide.	

Ordering Information

OPTION	DESCRIPTION
Option 010	on 85101
Option 008	on 85101

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

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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.