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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85140B

HP Agilent 85140B S-Parameter Test Set 45 MHz to 26.5 GHz Class for 8510 The HP 85140B is the B-revision 8510 S-parameter test set in the same 45 MHz to 26.5 GHz 3.5 mm class as 85140A, used with 85101 display/processor and 85102 IF/detector. OEM 8510C 5091-8484E family lists 8514B/8515A 20/26.5 GHz 3.5 mm test sets as the catalog equivalents. Two-port S-parameter measurements on 8510C to 26.5 GHz. Instrument Type: 8510 S-parameter test set The HP 85140B is the B-revision 8510 S-parameter test set in the same 45 MHz to 26.5 GHz 3.5 mm class as 85140A, used with 85101 display/processor and 85102 IF/detector. OEM 8510C 5091-8484E family lists 8514B/8515A 20/26.5 GHz 3.5 mm test sets as the catalog equivalents. Two-port S-parameter measurements on 8510C to 26.5 GHz. Instrument Type: 8510 S-parameter test set Family Frequency Coax 3p5 Mm Class: 45 MHz to 26.5 GHz



MODEL

**Agilent / Keysight
85140B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85140B

LISTING

<https://aumictechlabs.com/products/85140b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85140B is a coaxial short that establishes precise measurement planes in 50-ohm systems by providing known reflection phase and magnitude. This calibration standard is essential for accurate network analyzer measurements in RF and microwave applications. Technical Specifications Product Type: Coaxial Short Connector Type: 2.4 mm Female Impedance: 50 Ohm Frequency Range: Up to 50 GHz (2.4 mm connector capability) Key Features Establishes measurement planes with precisely defined reflection characteristics Uses

2.4 mm connector - a precision interface developed jointly by HP, Amphenol, and M/A COM Thick outer wall and strengthened female fingers reduce connector wear compared to SMA and 2.92 mm designs Suitable for high-frequency calibration and verification tasks Typical Applications The 85140B functions as a calibration standard for network analyzer systems. It has a known short impedance reference required for establishing accurate measurement planes during S-parameter characterization, impedance measurements, and system calibration procedures in microwave test environments. Compatibility & Integration Designed for use with network analyzers equipped for 2.4 mm connectors. The female 2.4 mm interface can be adapted to SMA, 3.5 mm, and 2.92 mm connectors through precision adapters, enabling integration into diverse measurement systems. The 85140B extends network analyzer capabilities across complex RF and microwave applications.

85140B Characteristics / Specifications

PARAMETER	VALUE
Model	85140B
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
Test Ports	3.5 mm class
Related Prior	85140A
Related 8515a	26.5 GHz 3.5 mm
Related 8514b	20 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
Operating temperature	Class: 8510 system

85140B Specifications

PARAMETER	VALUE
Applications	Two-port S-parameter measurements on 8510C to 26.5 GHz.
Key Features	8510 test set revision B
Technical Specifications	Model: 85140B
Notes	Identity from HP 8510C test-set family listings for 85140B. Confirm 20 GHz versus 26.5 GHz port option on the 85140B faceplate.

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 Notes Identity from HP 8510C test-set family listings for 85140B. Confirm 20 GHz versus 26.5 GHz port option on the 85140B faceplate.

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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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
Test Ports	3.5 mm class
Related Prior	85140A
Related 8515a	26.5 GHz 3.5 mm
Related 8514b	20 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
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Notes	
Identity from HP 8510C test-set family listings for 85140B. Confirm 20 GHz versus 26.5 GHz port option on the 85140B faceplate.	

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.