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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85140A

HP Agilent 85140A S-Parameter Test Set 45 MHz to 26.5 GHz Class for 8510 The HP 85140A is an 8510-family S-parameter test set in the 8514/8515/8516/8517 lineage covering 45 MHz to 26.5 GHz class with 3.5 mm test ports. OEM 8510C data sheet 5091-8484E lists 8515A 26.5 GHz 3.5 mm and related test sets; 85140A denotes the 8510 test-set hardware used with 85101 display/processor and 85102 IF/detector. Two-port S-parameter measurements to 26.5 GHz on 8510C systems. Instrument Type: 8510 S-parameter test set The HP 85140A is an 8510-family S-parameter test set in the 8514/8515/8516/8517 lineage covering 45 MHz to 26.5 GHz class with 3.5 mm test ports. OEM 8510C data sheet 5091-8484E lists 8515A 26.5 GHz 3.5 mm and related test sets; 85140A denotes the 8510 test-set hardware used with 85101 display/processor and 85102 IF/detector. Two-port S-parameter measurements to 26.5 GHz on 8510C systems. Instrument Type: 8510 S-parameter test set Family Frequency Coax 3p5 Mm Class: 45 MHz to 26.5 GHz



MODEL

**Agilent / Keysight
85140A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85140A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85140A is a 50-ohm coaxial short designed to establish measurement planes with known reflection phase and magnitude in precision RF and microwave test systems. This 2.4 mm male connector component provides a defined reflection coefficient essential for network analyzer calibration and characterization work. It functions as a passive termination

standard, delivering predictable electrical behavior required for accurate device and system measurement verification across calibrated test setups.

Technical Specifications

Component Type: Coaxial Short

Impedance: 50 Ohm

Connector: 2.4 mm Male

Electrical Function: Provides known reflection coefficient for calibration and measurement

Key Features

- Establishes measurement planes with defined reflection phase and magnitude
- Passive design with 50-ohm impedance matching
- Delivers consistent reflection characteristics for repeatable calibration cycles
- Compact 2.4 mm connector form factor for laboratory test configurations

Typical Applications

- Network analyzer calibration and verification
- S-parameter measurement plane establishment
- Device characterization under controlled reflection conditions
- Electronic system testing requiring precision reference standards
- Calibration kit integration for RF test sets

Compatibility & Integration

Designed for Agilent/Keysight network analyzers and test sets employing 2.4 mm coaxial interfaces. Compatible with systems such as the 8510B network analyzer when integrated with associated test sets including the 8512A and 8514B. Suitable for any 50-ohm coaxial measurement system requiring a passive short standard for establishment of known reflection planes.

85140A Characteristics / Specifications

PARAMETER	VALUE
Model	85140A
Instrument Type	8510 S-parameter test set
Family Frequency Coax 3p5 Mm Class	45 MHz to 26.5 GHz
Partner Display	85101A/B/C display/processor
Partner If Detector	85102A/B/C
Partner Source	8350 or 8360 synthesized sweeperSParameters: S11 S21 S12 S22
Test Ports	3.5 mm class
Manufacturer	HP Agilent Keysight
Form Factor	8510 test set box
Literature	8510C 5091-8484E test-set family
Related 8515a	26.5 GHz 3.5 mm
Related 8514b	20 GHz 3.5 mm
Related 8517a	50 GHz 2.4 mm
Bus	HP-IB via 85101
Measurement Types	magnitude phase group delay
Time Domain	Option 010 on 85101
Pulse Profile	Option 008 on 85101
Operating Temperature Class	8510 system
Use Case	two-port linear network analysis
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: 8510 system

85140A Specifications

PARAMETER	VALUE
Applications	Two-port S-parameter measurements to 26.5 GHz on 8510C systems.
Key Features	8510 S-parameter test set
Works with 85101 and 85102	HP-IB via 85101
Technical Specifications	Model: 85140A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 8510 system
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Use Case	two-port linear network analysis
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity as 8510-family S-parameter test set 85140A from HP 8510C system literature. Exact port match, coupler directivity, and frequency are on the 85140A test-set data / 8510C configuration.

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

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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

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.