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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85108L

HP Agilent 85108L Pulsed RF 8510C Network Analyzer System 45 MHz to 2 GHz The HP/Agilent 85108L is the 45 MHz to 2 GHz pulsed-RF 8510C system. OEM 8510C data sheet lists test set 85110L, two 83620B-H80 synthesized sweepers, calibration kit 85050D 7 mm, and full two-port broadband-load calibration. Pulsed receiver dynamic range is 72 dB across 0.045-0.1 / 0.1-0.5 / 0.5-2 GHz, with CW receiver dynamic range 101/101/100 dB. The 85110L can handle up to 50 W (plus 47 dBm) with step attenuators and open-architecture loop precautions. The HP/Agilent 85108L is the 45 MHz to 2 GHz pulsed-RF 8510C system. OEM 8510C data sheet lists test set 85110L, two 83620B-H80 synthesized sweepers, calibration kit 85050D 7 mm, and full two-port broadband-load calibration. Pulsed receiver dynamic range is 72 dB across 0.045-0.1 / 0.1-0.5 / 0.5-2 GHz, with CW receiver dynamic range 101/101/100 dB. The 85110L can handle up to 50 W (plus 47 dBm) with step attenuators and open-architecture loop precautions. High-power pulsed S-parameter measurements from 45 MHz to 2 GHz in 7 mm.



MODEL

**Agilent / Keysight
85108L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85108L

LISTING

<https://aumictechlabs.com/products/85108I-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85108L is a factory-integrated pulsed-RF network analyzer system that extends the 8510C network analyzer capabilities for precise microwave and RF characterization. It delivers high-power pulsed measurements on wafer and in-fixture devices with low duty cycles,

combining pulse profile analysis, dynamic device behavior tracking, and broadband S-parameter measurements in a single integrated platform.

Technical Specifications

Frequency Range: 45 MHz to 2.3 GHz Pulsed Device Output Power: Up to 100 W CW Power: Up to 50 W CW Dynamic Range: 75 dB at 20 GHz; >62 dB dynamic range expandable to 50 GHz IF Bandwidth: 1.5 MHz Pulsed Dynamic Range: Wide dynamic range independent of applied duty cycle

Key Features

- Pulsed-RF measurements in frequency and time domains
- Pulse profile network analysis with full two-port error correction
- Real-time dynamic device behavior analysis versus time
- Load pull measurements supported
- Spectral analysis and noise figure measurements without performance degradation
- Rapid data acquisition via high IF bandwidth for fast magnitude and phase profiling

Typical Applications

- High-power pulsed device characterization
- On-wafer and in-fixture measurements of low-duty-cycle RF/microwave devices
- Pulse profile and spectral analysis
- Device load pull analysis

Compatibility & Integration

Operates with the Agilent/Keysight 8510C network analyzer equipped with Option 008 for pulsed-RF operation. Requires an Agilent 85110A or 85110L S-parameter test set.

85108L Characteristics / Specifications

PARAMETER	VALUE
Model	85108L
Instrument Type	pulsed-RF 8510C vector network analyzer system
Frequency Range	45 MHz to 2 GHz
Test Set	85110L S-parameter test set
Rf Sources	two 83620B-H80 synthesized sweepers
Calibration Kit	85050D 7 mm
Calibration Technique	full two-port with broadband loads
Max Power Port2 0p045 To 0p1 Ghz	plus 20 dBm (0 dB step attenuators)
Max Power Port2 0p1 To 0p5 Ghz	plus 6 dBm
Max Power Port2 0p5 To 2 Ghz	plus 5 dBm
Reference Power 0p045 To 0p1 Ghz	plus 0 dBm nominal
Reference Power 0p1 To 0p5 Ghz	plus 1 dBm nominal
Reference Power 0p5 To 2 Ghz	0 dBm nominal
Min Power Pulsed 0p045 To 0p1 Ghz	minus 53 dBm
Min Power Cw 0p045 To 0p1 Ghz	minus 81 dBm
Receiver Dynamic Range Pulsed	72 dB (all three bands listed)
Receiver Dynamic Range Cw 0p045 To 0p1 Ghz	101 dB
Receiver Dynamic Range Cw 0p5 To 2 Ghz	100 dB
System Dynamic Range Pulsed 0p045 To 0p1 Ghz	53 dB
System Dynamic Range Pulsed 0p1 To 0p5 Ghz	67 dB
System Dynamic Range Pulsed 0p5 To 2 Ghz	66 dB
System Dynamic Range Cw 0p1 To 2 Ghz	95 dB

PARAMETER	VALUE
Port2 High Power Handling	up to 50 W (plus 47 dBm) with step attenuators and loop precautions
Connector Class	7 mm
Specification Temperature	23 C plus or minus 3 C
Manufacturer	HP Agilent Keysight

85108L Specifications

PARAMETER	VALUE
Applications	High-power pulsed S-parameter measurements from 45 MHz to 2 GHz in 7 mm.
Key Features	85110L low-band pulsed test set
Technical Specifications	Model: 85108L

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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Max Power Port2 0p5 To 2 Ghz	plus 5 dBm
Reference Power 0p045 To 0p1 Ghz	plus 0 dBm nominal
Reference Power 0p1 To 0p5 Ghz	plus 1 dBm nominal
Reference Power 0p5 To 2 Ghz	0 dBm nominal
Min Power Pulsed 0p045 To 0p1 Ghz	minus 53 dBm
Min Power Cw 0p045 To 0p1 Ghz	minus 81 dBm
Receiver Dynamic Range Pulsed	72 dB (all three bands listed)
Receiver Dynamic Range Cw 0p045 To 0p1 Ghz: 101 dB	
Receiver Dynamic Range Cw 0p5 To 2 Ghz: 100 dB	
System Dynamic Range Pulsed 0p045 To 0p1 Ghz: 53 dB	
System Dynamic Range Pulsed 0p1 To 0p5 Ghz: 67 dB	
System Dynamic Range Pulsed 0p5 To 2 Ghz: 66 dB	
System Dynamic Range Cw 0p1 To 2 Ghz: 95 dB	
Specifications	
PARAMETER	VALUE
Port2 High Power Handling	up to 50 W (plus 47 dBm) with step attenuators and loop precautions
Connector Class	7 mm
Specification Temperature	23 C plus or minus 3 C
Manufacturer	HP Agilent Keysight

Notes

From Agilent 8510C Network Analyzer data sheet 85108L pulsed-RF system table. Complete 85108L system data sheet has additional pulse-width limits.

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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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.