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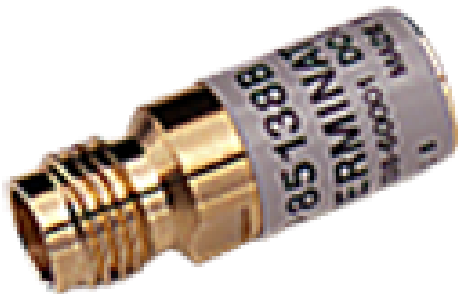
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85138B

HP Agilent Keysight 85138B Coaxial Termination DC to 50 GHz 50 Ohm 2.4 mm Female The Keysight 85138B is a 50 ohm coaxial termination with a 2.4 mm female connector covering DC to 50 GHz. OEM RF accessories catalog load table lists VSWR 1.065 DC to 26.5 GHz, 1.118 from 26.5 to 40 GHz, and 1.220 from 40 to 50 GHz, 0.5 W average / 100 W peak, length 20.95 mm (0.82 in), diameter 8.25 mm (0.32 in), and shipping weight 0.3 kg (0.6 lb). Male counterpart is 85138A (20 mm / 8 mm). 2.4 mm VNA calibration loads, 50 GHz instrument unused ports, and precision 50 ohm terminations on 2.4 mm test sets. The Keysight 85138B is a 50 ohm coaxial termination with a 2.4 mm female connector covering DC to 50 GHz. OEM RF accessories catalog load table lists VSWR 1.065 DC to 26.5 GHz, 1.118 from 26.5 to 40 GHz, and 1.220 from 40 to 50 GHz, 0.5 W average / 100 W peak, length 20.95 mm (0.82 in), diameter 8.25 mm (0.32 in), and shipping weight 0.3 kg (0.6 lb). Male counterpart is 85138A (20 mm / 8 mm). 2.4 mm VNA calibration loads, 50 GHz instrument unused ports, and precision 50 ohm terminations on 2.4 mm test sets.

**MODEL****Agilent / Keysight
85138B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****85138B****LISTING**<https://aumictechlabs.com/products/85138b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 85138B is a precision 50-ohm coaxial termination load for DC to 50 GHz applications. This calibration standard terminates coaxial systems in their characteristic impedance, enabling accurate and repeatable RF and microwave measurements across

demanding test environments. Technical Specifications Frequency Range: DC to 50 GHz Impedance: 50 ohms Connector: 2.4 mm female Maximum SWR: 1.07 (DC–26.5 GHz) | 1.12 (26.5–40 GHz) | 1.22 (40–50 GHz) Maximum Power: 0.5 W average, 100 W peak Physical Length: 20.95 mm (0.82 in) Physical Diameter: 8.25 mm (0.32 in) Connector Face Depth: 0.3 mm (0.6 in) Key Features Low-reflection design ensures minimal signal distortion across the full frequency band SWR specifications tighten at lower frequencies, reaching 1.07 below 26.5 GHz for high-precision calibration Compact 2.4 mm form factor integrates directly into modern network analyzer ports Peak power handling of 100 W accommodates both CW and pulsed measurement applications DC-rated performance enables characterization of low-frequency and broadband systems Typical Applications Network analyzer calibration and verification RF and microwave test port termination S-parameter measurement reference standards High-frequency component characterization System impedance matching validation Compatibility & Integration The 85138B interfaces with network analyzers and RF/microwave test instruments equipped with 2.4 mm female ports. Its impedance and SWR specifications position it as a calibration standard across the DC to 50 GHz band, with performance optimized for precision measurements in sub-26.5 GHz applications.

85138B Characteristics / Specifications

PARAMETER	VALUE
Model	85138B
Instrument Type	Coaxial termination load
Characteristic Impedance	50 ohm
Frequency Range	DC to 50 GHz
Connector Type	2.4 mm female
Swr Dc To 26p5 Ghz	1.065
Swr 26p5 To 40 Ghz	1.118
Swr 40 To 50 Ghz	1.220
Average Power	0.5 W
Peak Power	100 W
Body Length	20.95 mm (0.82 in)
Body Diameter	8.25 mm (0.32 in)
Shipping Weight	0.3 kg (0.6 lb)
Male Counterpart	85138A 2.4 mm male, 20 mm (0.78 in) by 8 mm (0.31 in)
Male Swr	same 1.065 / 1.118 / 1.220 bands as 85138B
Literature	Keysight RF and Microwave Test Accessories catalog loads table; 85138A/B rows
Manufacturer	HP Agilent Keysight
Related 3p5 Mm Load	909D DC to 26.5 GHz
Related 7 Mm Load	909A DC to 18 GHz
Catalog Family	85138 2.4 mm terminations
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	2.4 mm coaxial fixed load
System Role	50 ohm termination DC to 50 GHz
Use Class	precision 2.4 mm load
Mating Interface	2.4 mm female

PARAMETER	VALUE
Duty	0.5 W average
Application Class	50 GHz VNA and instrument ports
Frequency Class	millimeter-wave coaxial load

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	85138B
Instrument Type	Coaxial termination load
Characteristic Impedance	50 ohm
Frequency Range	DC to 50 GHz
Connector Type	2.4 mm female
Swr Dc To 26p5 Ghz	1.065
Swr 26p5 To 40 Ghz	1.118
Swr 40 To 50 Ghz	1.220
Average Power	0.5 W
Peak Power	100 W
Body Length	20.95 mm (0.82 in)
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Shipping Weight	0.3 kg (0.6 lb)
Male Counterpart	85138A 2.4 mm male, 20 mm (0.78 in) by 8 mm (0.31 in)
Male Swr	same 1.065 / 1.118 / 1.220 bands as 85138B
Literature	Keysight RF and Microwave Test Accessories catalog loads table; 85138A/B rows
Manufacturer	HP Agilent Keysight
Related 3p5 Mm Load	909D DC to 26.5 GHz
Related 7 Mm Load	909A DC to 18 GHz
Catalog Family	85138 2.4 mm terminations
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	2.4 mm coaxial fixed load
System Role	50 ohm termination DC to 50 GHz
Use Class	precision 2.4 mm load
Mating Interface	2.4 mm female

PARAMETER	VALUE
Duty	0.5 W average
Application Class	50 GHz VNA and instrument ports
Frequency Class	millimeter-wave coaxial load

Notes

From Keysight RF and Microwave Test Accessories catalog fixed-termination table, 85138B row (DC to 50 GHz, VSWR 1.065 / 1.118 / 1.220, 0.5 W / 100 W, 2.4 mm female, 20.95 mm x 8.25 mm, 0.3 kg shipping). Pin-depth and torque belong on the 2.4 mm connector practice note, not this short catalog row.

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.