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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 909D

HP Agilent Keysight 909D Coaxial Termination DC to 26.5 GHz 50 Ohm 3.5 mm The Keysight 909D isaprecision 50 ohm coaxial termination specified DC to 26.5 GHz and mode-free to 34 GHz. OEM operating note 00909-90034 Table 2-1 lists 3.5 mm female (011), 3.5 mm male (301), and 3.5 mm male (040) IEEE 287 GPC connectors. Reflection for 011/301 is 0.01 (1.02 SWR) DC to 3 GHz, 0.02 (1.04 SWR) 3 to 6 GHz, 0.06 (1.12 SWR) 6 to 26.5 GHz. 040 is 0.01 to 4 GHz, 0.02 from 4 to 6 GHz, 0.06 to 26.5 GHz. Power is 2 W average (1 W at 75 C) and 100 W peak (10 ps max pulse) at 20 C. The Keysight 909D isaprecision 50 ohm coaxial termination specified DC to 26.5 GHz and mode-free to 34 GHz. OEM operating note 00909-90034 Table 2-1 lists 3.5 mm female (011), 3.5 mm male (301), and 3.5 mm male (040) IEEE 287 GPC connectors. Reflection for 011/301 is 0.01 (1.02 SWR) DC to 3 GHz, 0.02 (1.04 SWR) 3 to 6 GHz, 0.06 (1.12 SWR) 6 to 26.5 GHz. 040 is 0.01 to 4 GHz, 0.02 from 4 to 6 GHz, 0.06 to 26.5 GHz. Power is 2 W average (1 W at 75 C) and 100 W peak (10 ps max pulse) at 20 C. 3.5 mm VNA calibration loads, 26.5 GHz instrument ports, and precision 50 ohm terminations on APC-3.5 test sets.



MODEL

**Agilent / Keysight
909D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

909D

LISTING

<https://aumictechlabs.com/products/909d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 909D is a precision 50-ohm coaxial termination load designed for high-frequency calibration and measurement applications. It has a low-reflection, matched load across

a wide frequency band, serving as an essential calibration standard for coaxial instrumentation and broadband test systems.

Technical Specifications

Frequency Range: DC to 26.5 GHz (mode-free operation to 34 GHz)

Impedance: 50 Ohms

Connector: 3.5 mm APC male (standard); 3.5 mm female available (Option 011); improved accuracy 3.5 mm male available (Option 040)

Return Loss Performance: Maximum SWR 1.02 at 3 GHz Maximum SWR 1.036 at 5 GHz and 6 GHz Maximum SWR 1.12 at 26.5 GHz Typical VSWR 1.1 at 26.5 GHz

Power Handling: Maximum average power: 2 W Maximum peak power: 100 W (10 ps pulse width maximum) Derated to 1 W average at 75 °C

Physical Dimensions: 23 mm length × 4 mm diameter

Key Features

Precise impedance matching across the DC to 26.5 GHz band with excellent return loss characteristics enables accurate system characterization and instrument calibration. The compact form factor and multiple connector options provide flexibility in laboratory and field applications. Operating temperature range of 15 °C to 35 °C with non-condensing humidity control maintains measurement accuracy. Storage capability from -40 °C to +75 °C supports extended instrument lifecycles.

Typical Applications

Calibration standard for 50-ohm coaxial systems Broadband measuring instrument accessories Terminating loads for coaxial instrumentation Network analyzer and RF test system calibration

Compatibility & Integration

The 909D interfaces with standard 3.5 mm coaxial connectors. Annual calibration or recalibration after 1000 connector mating cycles maintains traceability. Periodic connector inspection and cleaning preserves electrical performance.

909D Characteristics / Specifications

PARAMETER	VALUE
Model	909D
Instrument Type	Precision coaxial termination
Characteristic Impedance	50 ohm
Frequency Range	DC to 26.5 GHz (mode free to 34 GHz)
Connector 0	3.5 mm female
Connector 3	3.5 mm male
Reflection 011 301 Dc To 3 Ghz	0.01 (1.02 SWR)
Reflection 011 301 3 To 6 Ghz	0.02 (1.04 SWR)
Reflection 011 301 6 To 26p5 Ghz	0.06 (1.12 SWR)
Reflection 040 Dc To 4 Ghz	0.01 (1.02 SWR)
Reflection 040 4 To 6 Ghz	0.02 (1.04 SWR)
Reflection 040 6 To 26p5 Ghz	0.06 (1.12 SWR)
Average Power	2 W at 20 C; derated to 1 W average at 75 C
Peak Power	100 W (10 ps maximum pulse width) at 20 C
Length 0	23 mm (0.91 in)
Length 301 0	24 mm (0.94 in)
Diameter 0	8 mm
Diameter 301 0	9 mm (0.35 in)
Net Weight	7 g (0.25 oz)
Shipping Weight	0.45 kg (0.99 lb)
Pin Depth	0 to minus 78.8 um (0 to minus 20×10^{-4} in)
Operating Temperature	plus 15 C to plus 35 C
Storage Temperature	minus 40 C to plus 75 C
Operating Humidity	0 to 80 percent, 26 C maximum dry bulb, non-condensing
Vibration	0.015 in, 5 to 55 to 5 Hz, 15 min, 3 axes

PARAMETER	VALUE
Shock	100 g, 1 to 2 ms, 3 times each plane
Literature	Keysight 909D datasheet 5952-0274; operating note 00909-90034
Manufacturer	HP Agilent Keysight
Catalog Swr 3 To 6 Ghz	1.036 in accessory catalog (operating note uses 1.04 SWR / 0.02)
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	3.5 mm coaxial calibration load
Humidity	0 to 80 percent, 26 C maximum dry bulb, non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 75 C
Operating temperature	plus 15 C to plus 35 C
Operating Temperature	plus 15 C to plus 35 C
Humidity	0 to 80 percent, 26 C maximum dry bulb, non-condensing
Operating Humidity	0 to 80 percent, 26 C maximum dry bulb, non-condensing
Vibration	0.015 in, 5 to 55 to 5 Hz, 15 min, 3 axes
Shock	100 g, 1 to 2 ms, 3 times each plane
Literature	Keysight 909D datasheet 5952-0274; operating note 00909-90034
Manufacturer	HP Agilent Keysight
Catalog Swr 3 To 6 Ghz	1.036 in accessory catalog (operating note uses 1.04 SWR / 0.02)
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	3.5 mm coaxial calibration load Notes From Keysight 909A/D Coaxial Terminations Operating and Service Manual 00909-90034 Tables 2-1, 2-3, 2-5, 2-6 and RF accessories catalog load table. Catalog VSWR 1.036 at 3 to 6 GHz corresponds to the operating-note 0.02 (1.04 SWR) row. Torque and connector cleaning are in chapter 3 of 00909-90034.

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	909D
Instrument Type	Precision coaxial termination
Characteristic Impedance	50 ohm
Frequency Range	DC to 26.5 GHz (mode free to 34 GHz)
Connector 011	3.5 mm female
Connector 301	3.5 mm male
Connector 040	3.5 mm male
Reflection 011 301 Dc To 3 Ghz	0.01 (1.02 SWR)
Reflection 011 301 3 To 6 Ghz	0.02 (1.04 SWR)
Reflection 011 301 6 To 26p5 Ghz	0.06 (1.12 SWR)
Reflection 040 Dc To 4 Ghz	0.01 (1.02 SWR)
Reflection 040 4 To 6 Ghz	0.02 (1.04 SWR)
Reflection 040 6 To 26p5 Ghz	0.06 (1.12 SWR)
Average Power	2 W at 20 C; derated to 1 W average at 75 C
Peak Power	100 W (10 ps maximum pulse width) at 20 C
Length 011	23 mm (0.91 in)
Length 301 040	24 mm (0.94 in)
Diameter 011	8 mm
Diameter 301 040	9 mm (0.35 in)
Net Weight	7 g (0.25 oz)
Shipping Weight	0.45 kg (0.99 lb)
Pin Depth	0 to minus 78.8 um (0 to minus 20 x 10^-4 in)
Operating Temperature	plus 15 C to plus 35 C
Storage Temperature	minus 40 C to plus 75 C
Operating Humidity	0 to 80 percent, 26 C maximum dry bulb, non-condensing
Vibration	0.015 in, 5 to 55 to 5 Hz, 15 min, 3 axes

PARAMETER	VALUE
Shock	100 g, 1 to 2 ms, 3 times each plane
Literature	Keysight 909D datasheet 5952-0274; operating note 00909-90034
Manufacturer	HP Agilent Keysight
Catalog Swr 3 To 6 Ghz	1.036 in accessory catalog (operating note uses 1.04 SWR / 0.02)
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	3.5 mm coaxial calibration load

Notes

From Keysight 909A/D Coaxial Terminations Operating and Service Manual 00909-90034 Tables 2-1, 2-3, 2-5, 2-6 and RF accessories catalog load table. Catalog VSWR 1.036 at 3 to 6 GHz corresponds to the operating-note 0.02 (1.04 SWR) row. Torque and connector cleaning are in chapter 3 of 00909-90034.

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 ·
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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.