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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 909E

HP Agilent Keysight 909E Precision Coaxial Termination DC to 3 GHz 75 Ohm The Keysight 909E is a precision low-reflection 75 ohm load for use as a calibration standard from DC to 3 GHz. OEM datasheet 5952-0832 and RF accessories catalog list tantalum nitride on sapphire, gold-plated beryllium-copper contacts, Type-N male standard / Type-N female (909E-011), VSWR 1.01 DC to 2 GHz and 1.02 from 2 to 3 GHz, 0.5 W average / 100 W peak, 51 mm length, 21 mm diameter (male) / 16 mm (female 011), and 0.2 kg shipping. The Keysight 909E is a precision low-reflection 75 ohm load for use as a calibration standard from DC to 3 GHz. OEM datasheet 5952-0832 and RF accessories catalog list tantalum nitride on sapphire, gold-plated beryllium-copper contacts, Type-N male standard / Type-N female (909E-011), VSWR 1.01 DC to 2 GHz and 1.02 from 2 to 3 GHz, 0.5 W average / 100 W peak, 51 mm length, 21 mm diameter (male) / 16 mm (female 011), and 0.2 kg shipping. 75 ohm Type-N network-analyzer calibration, CATV/broadcast instrument ports, and precision 75 ohm bench terminations through 3 GHz.

**MODEL****Agilent / Keysight
909E****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****909E****LISTING**<https://aumictechlabs.com/products/909e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 909E is a precision 75 Ω coaxial termination engineered as a calibration standard for demanding RF and microwave measurement systems. Built on tantalum nitride on sapphire thin-film technology, it delivers exceptional reflection coefficient performance across its operating

range while maintaining stable impedance under thermal and mechanical stress.

Technical Specifications

Electrical Performance

Impedance: 75 Ω Frequency Range: DC to 3 GHz Reflection Coefficient: ≤ 0.005 (DC to 2 GHz); ≤ 0.01 (2 GHz to 3 GHz) VSWR: ≤ 1.01 SWR (DC to 2 GHz); ≤ 1.02 SWR (2 GHz to 3 GHz) Average Power Rating: 0.5 W Peak Power Rating: 100 W (10 μ S pulse width) Connector & Construction Type N interface, available in male or female configurations Gold-plated beryllium copper contacts ensure repeatable connections and wear resistance

Length: 51 mm Net Weight: 60 g

Environmental & Operational Limits

Operating Temperature: +15 $^{\circ}$ C to +35 $^{\circ}$ C Storage Temperature: -55 $^{\circ}$ C to +75 $^{\circ}$ C Operating Altitude: Up to 15,000 ft Storage Altitude: Up to 50,000 ft Humidity: Five-day cycling at +40 $^{\circ}$ C / 95% RH (non-condensing) Vibration: 0.015" displacement, 5-55-5 Hz, 15 min per axis (3 axes) Shock: 200 g, 3 ms, three impacts per plane EMC: Compliant with MIL-STD-461 (RE02), VDE0871, and CISPR 11

Key Features

Ultra-low reflection coefficient across DC to 3 GHz enables high-accuracy calibration traceback Thin-film resistive element eliminates connector-induced discontinuities Rated for both continuous (0.5 W average) and pulsed (100 W peak) power handling Compact form factor (51 mm length) fits standard 75 Ω test benches Mechanical robustness under vibration and shock meets field deployment requirements

Typical Applications

Network analyzer calibration and system error correction Impedance matching verification in 75 Ω distribution systems Transmission line characterization and S-parameter measurements Frequency-dependent loss and reflection benchmarking

Compatibility & Integration

Designed for integration with Keysight/Agilent test and measurement platforms operating in 75 Ω environments. Connector options (male/female Type N) support direct connection to standard RF test ports.

909E Characteristics / Specifications

PARAMETER	VALUE
Model	909E
Instrument Type	Precision coaxial termination
Characteristic Impedance	75 ohm
Frequency Range	DC to 3 GHz
Swr Dc To 2 Ghz	1.01
Swr 2 To 3 Ghz	1.02
Average Power	0.5 W
Peak Power	100 W
Standard Connector	TypeNmale (909E 101)
Female Connector	TypeNfemale (909E 011)
Body Length	51 mm (2 in)
Male Diameter	21 mm (0.8 in)
Female Diameter	16 mm (0.6 in)
Shipping Weight	0.2 kg (0.5 lb)
Film Technology	tantalum nitride on sapphire
Contact Material	gold plated beryllium copper
Literature	Keysight 909E precision coaxial termination datasheet 5952-0832
Manufacturer	HP Agilent Keysight
Related 50 Ohm 2 Ghz	909C
Related 50 Ohm 26p5 Ghz	909D
Related General Purpose 4 Ghz	908A Type N 50 ohm
Catalog Family	909 Series fixed loads
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	coaxial calibration load
System Role	75 ohm precision termination DC to 3 GHz

PARAMETER	VALUE
Use Class	calibration standard
Mating Interface	Type N 75 ohm
Duty	0.5 W average continuous
Application Class	75 ohm VNA and instrument ports

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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Related 50 Ohm 2 Ghz	909C
Related 50 Ohm 26p5 Ghz	909D
Related General Purpose 4 Ghz	908A Type N 50 ohm
Catalog Family	909 Series fixed loads
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	coaxial calibration load
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Notes

From Keysight 909E Precision Coaxial Termination data sheet 5952-0832 and RF and Microwave Test Accessories catalog load table (75 ohm, DC to 3 GHz, VSWR 1.01 / 1.02, 0.5 W / 100 W, Type-N m/f, 51 mm). Do not mate 75 ohm 909E onto 50 ohm Type-N without a minimum-loss pad such as 11852B.

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.