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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 909C

HP Agilent Keysight 909C Precision Coaxial Termination DC to 2 GHz 50 Ohm The Keysight 909C isaprecision low-reflection 50 ohm load intended asacalibration standard from DC to 2 GHz. OEM datasheet 5952-0273 lists tantalum nitride on sapphire thin film, gold-plated beryllium-copper contacts, APC-7 standard connector, Type-N male (909C-012) and Type-N female (909C-013) connectors, reflection coefficient 0.0025 (1.005 SWR) on APC-7 / 909C-200 and 0.005 (1.01 SWR) on Type-N, 500 mW average / 100 W peak (10 us pulse), 60 g net / 200 g shipping, and 51 mm length. 909C-200 reduces frequency to DC to 200 MHz at the same 0.0025 reflection. The Keysight 909C isaprecision low-reflection 50 ohm load intended asacalibration standard from DC to 2 GHz. OEM datasheet 5952-0273 lists tantalum nitride on sapphire thin film, gold-plated beryllium-copper contacts, APC-7 standard connector, Type-N male (909C-012) and Type-N female (909C-013) connectors, reflection coefficient 0.0025 (1.005 SWR) on APC-7 / 909C-200 and 0.005 (1.01 SWR) on Type-N, 500 mW average / 100 W peak (10 us pulse), 60 g net / 200 g shipping, and 51 mm length. 909C-200 reduces frequency to DC to 200 MHz at the same 0.0025 reflection. VNA/NA open-short-load calibration, 50 ohm Type-N or APC-7 port termination, and precision bench loads through 2 GHz.



MODEL

**Agilent / Keysight
909C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

909C

LISTING

**[https://aumictechlabs.c
om/products/909c-2/](https://aumictechlabs.com/products/909c-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 909C is a precision coaxial termination engineered as a calibration standard for RF and microwave test systems. It delivers low-reflection termination in 50-ohm coaxial circuits with exceptional impedance stability across DC to 2 GHz. Built on tantalum nitride on sapphire thin-film technology and fitted with gold-plated beryllium copper contacts, the 909C combines minimal VSWR with solid mechanical performance in demanding laboratory environments.

Technical Specifications
Impedance: 50 Ω Frequency Range: DC to 2 GHz
Reflection Coefficient (909C APC-7): 0.0025 SWR (1.005:1 at 2 GHz) Reflection Coefficient (Type-N models): 0.005 SWR (1.01:1 at 2 GHz) Average Power Rating: 500 mW (0.5 W) Peak Power Rating: 100 W (10 ms pulse or 10 μ s pulse) Connector Options: APC-7 (909C), Type-N male (909C-012), Type-N female (909C-013) Length: 51 mm (2 in) Weight: 60 g (2 oz)

Key Features
Tantalum nitride on sapphire construction ensures long-term impedance stability Gold-plated beryllium copper connector contacts provide superior wear resistance Ultra-low VSWR across full frequency range Handles both continuous and pulsed power without degradation Compact, rugged design rated for laboratory and field use

Typical Applications
Calibration standard for network analyzers System impedance verification and validation RF and microwave test setup calibration Load termination in 50-ohm measurement systems

Compatibility & Integration
Available in three connector configurations to match existing test bench infrastructure. The 909C (APC-7) variant delivers the lowest reflection coefficient; Type-N male and female options (912C-012, 909C-013) provide standard coaxial integration while maintaining excellent performance characteristics.

909C Characteristics / Specifications

PARAMETER	VALUE
Model	909C
Instrument Type	Precision coaxial termination
Characteristic Impedance	50 ohm
Frequency Range Standard	DC to 2 GHz
Frequency Range 909C 2	DC to 200 MHz
Standard Connector	APC-7
TypeNMale Connector	909C 012
TypeNFemale Connector	909C 013
Reflection Apc	0.0025 (1.005 SWR) standard and 909C 200
Reflection Type N	0.005 (1.01 SWR) 012 and 013
Average Power	500 mW
Peak Power	100 W, 10 us per pulse
Net Weight	60 g (2 oz)
Shipping Weight	200 g (8 oz)
Body Length	51 mm (2 in)
Apc7 Diameter	22 mm (0.9 in)
TypeNMale Diameter	21 mm (0.8 in)
TypeNFemale Diameter	17 mm (0.7 in)
Film Technology	tantalum nitride on sapphire
Contact Material	gold plated beryllium copper
Literature	Keysight 909C datasheet 5952-0273 January 21, 2016
Manufacturer	HP Agilent Keysight
Catalog Family	909 Series fixed loads
Brand Lineage	Hewlett Packard Agilent Keysight
Form Factor	coaxial calibration load

PARAMETER	VALUE
System Role	50 ohm precision termination DC to 2 GHz
Shipping Weight Catalog	0.2 kg (0.5 lb) accessory catalog table

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	909C
Instrument Type	Precision coaxial termination
Characteristic Impedance	50 ohm
Frequency Range Standard	DC to 2 GHz
Frequency Range 909C 200	DC to 200 MHz
Standard Connector	APC-7
TypeNMale Connector	909C 012
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Reflection Type N	0.005 (1.01 SWR) 012 and 013
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Notes

From Keysight 909C Precision Coaxial Termination DC to 2 GHz data sheet 5952-0273 and RF/Microwave Test Accessories catalog load table (SWR, power, connectors, 51 mm, 60 g / 200 g). Do not confuse with 909A (DC to 18 GHz general-purpose) or 909D (DC to 26.5 GHz 3.5 mm).

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.