

KEYSIGHT TECHNOLOGIES (AGILENT HP)

909F

The Keysight (formerly Agilent HP) 909F is a family of precision low-reflection coaxial loads designed for use as calibration standards. Employing advanced tantalum nitride on sapphire thin-film technology, these loads provide exceptional long-term impedance stability and are available in APC-7, Type-N male, and Type-N female configurations. Their connector contacts feature gold-plated beryllium copper to ensure maximum wear resistance and repeatable performance.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	20 mm (diameter) × 51 mm (length) (standard APC-7) mm
Dimensions (Option 012)	22 mm (diameter) × 52 mm (length)
Dimensions (Option 013)	22 mm (diameter) × 48 mm (length)
Shipping Weight	0.2 kg

RF & Electrical Performance

Frequency Range (APC-7)	DC to 18 GHz
Frequency Range (Type-N)	DC to 18 GHz
Nominal Impedance	50 Ω
Maximum SWR at 6 GHz (APC-7)	1.025
Maximum SWR at 18 GHz (APC-7)	1.15
Maximum SWR at 2 GHz (Type-N)	1.007
Maximum SWR at 3 GHz (Type-N)	1.01
Maximum SWR at 6 GHz (Type-N)	1.02
Maximum SWR at 18 GHz (Type-N)	1.15
Impedance Stability	Exceptional long-term stability via thin-film technology
Average Power Rating	500 mW
Peak Power Rating	100 W (for 10 μs)

Mechanical & Connector Specifications

Standard Connector	APC-7
Option 012 Connector	Type-N (male)
Option 013 Connector	Type-N (female)

Environmental

Storage Temperature	-55 to +75 °C
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TECHNOLOGY

Tantalum Nitride on Sapphire Thin-Film

APPLICATIONS

RF Calibration Standard

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.