

Keysight Technologies 909F Precision Coaxial Termination

DC to 18 Ghz

Data Sheet



Specifications

Specifications describe the instruments' warranted performance over the +15° to +35° C temperature range.

Supplemental characteristics as denoted by "typical", "nominal", or "approximate" are provided as information useful in applying the instrument, but are non-warranted performance parameters.

Frequency Range	dc to 18 GHz
Impedance (nominal)	50 Ω
Connector	909F, APC-7 Option 012, type-N (m) Option 013, type-N (f)
Reflection Coefficient (max): 909F	dc to 5 GHz, 0.0025 (1.005 SWR) 5 to 6 GHz, 0.005 (1.01 SWR) 6 to 18 GHz, 0.07 (1.15 SWR)
Option 012	dc to 2 GHz, 0.0035 (1.007 SWR) 2 to 3 GHz, 0.005 (1.01 SWR) 3 to 6 GHz, 0.01 (1.02 SWR) 6 to 18 GHz, 0.07 (1.15 SWR)
Option 013	dc to 2 GHz, 0.0035 (1.007 SWR) 2 to 3 GHz, 0.005 (1.01 SWR) 3 to 6 GHz, 0.01 (1.02 SWR) 6 to 18 GHz, 0.07 (1.15 SWR)
Power Rating	500 mW avg.; 100 W peak, 10 μS/pulse
Weight	net-60g (2 oz); shipping-200 g (8 oz)

Environmental

Temperature	Operating: +15° to +35° C Non Operating: -55° to +75° C
Altitude	Operating: 15,000 ft Non Operating: 50,000 ft
Humidity	Cycling 5 days, +40° C @ 95% RH
Vibration	0.015", 5-55-5 Hz, 15 min., 3 axes
Shock	100 g, 1-2 ms, 3 times 3 planes
EMC	Radiation interference is within the requirements of MIL-STD-461, method RE02, VDE 0871, CISPR Publication 11.

Description

Keysight Technologies, Inc.'s 909F family of precision low reflection loads are intended for use as calibration standards.

Tantalum nitride on sapphire thin-film technology is used for exceptional long-term impedance stability. To ensure the best possible wear resistance characteristics, gold-plated beryllium copper has been used for the connector contacts.

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