DATA SHEET

909F Precision Coaxial Termination DC to 18 Ghz



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.

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)

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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.

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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