

Agilent 909F Precision Coaxial Termination

Data Sheet

DC to 18 GHz



Description

Agilent Technologies' 909F family of precision low reflection loads are intended for use as calibration standards.

Tantalum nitride on sapphire thinfilm 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)

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.



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