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 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)

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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Product specifications and descriptions in this document subject to change without notice.

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