



Agilent 909E

Precision Coaxial Termination

dc - 3 GHz, 75 Ω
Data Sheet



Features and description

Agilent's 909E is a precision, low reflection, 75 Ω load intended for use as a calibration standard.

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

Specifications

Frequency range:

dc - 3 GHz (Option 909E-101 or Option 909E-011)

Impedance (nominal): 75 Ω

Connector:

909E and Option 909E-201 - type N (m)
Option 909E-011 - type N (f)

Reflection coefficient (max):

909E standard and Option 909E-011
dc - 2 GHz, 0.005 (1.01 SWR)
2 - 3 GHz, 0.01 (1.02 SWR)

Power rating: 500 mW average;
100 W peak, 10 μ S/pulse

Environmental

Temperature:

Operating: +15 to +35 $^{\circ}$ C
Non operating: -55 to +75 $^{\circ}$ C

Altitude:

Operating: 15,000 ft
Non operating: 50,000 ft

Humidity: Cycling five days,
+40 $^{\circ}$ C @ 95% RH

Vibration: 0.015", 5-55-5 Hz,
15 min., 3 axes

Shock: 200 g, 3 ms, three times each
plane

EMC: Radiation interference is within
the requirements of MIL-STD-461,
method RE02, VDE0871, CISPR
publication 11

Weight: net - 60 g (2 oz)
shipping - 200 g (8 oz)

Length: 51 mm (2 in)

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