



# Agilent 909E

## Precision Coaxial Termination

dc - 3 GHz, 75  $\Omega$   
Data Sheet



### Features and description

Agilent's 909E is a precision, low reflection, 75  $\Omega$  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  $\Omega$

**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  $\mu$ 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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