

# 909E Precision Coaxial Termination

dc - 3 GHz, 75  $\Omega$

## Features and Description

A Keysight Technologies, Inc. 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 ensure 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-101 - 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 °C Non-operating: -55 to +75 °C
Altitude	Operating: 15,000 ft Non-operating: 50,000 ft
Humidity	Cycling five days, +40 °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)