# Keysight 909E
# Precision Coaxial Termination
dc - 3 GHz, 75 Ω

## Data Sheet

## 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)<br>Option 909E-011 - type N (f) |
| Reflection coefficient (max) | 909E standard and Option 909E-011<br>dc - 2 GHz, 0.005 (1.01 SWR)<br>2 - 3 GHz, 0.01 (1.02 SWR) |
| Power rating | 500 mW average; 100 W peak, 10 µS/pulse |

## Environmental

| | |
|---|---|
| Temperature | Operating: +15 to +35 °C<br>Non operating: −55 to +75 °C |
| Altitude | Operating: 15,000 ft<br>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)<br>shipping - 200 g (8 oz) |
| Length | 51 mm (2 in) |

## Features and description

A Keysight Technologies, Inc. 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.

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