

# Keysight Technologies Inc.

## 909A Coaxial Termination

DC to 18 GHz

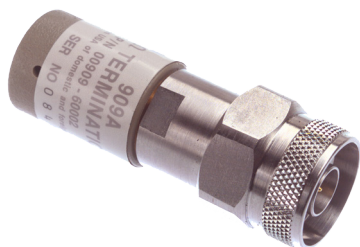
### Technical Overview

#### Key Features

- Broadband load with low RF leakage ensures excellent measurement accuracy.
- Low reflection of 0.11 at 18 GHz minimizes loss.

The Keysight Technologies, Inc. 909A coaxial termination is a low-reflection load for terminating 50  $\Omega$  coaxial systems in their characteristic impedance. This termination is widely used for broadband instrument measurement and for coaxial instrumentation from DC to 18 GHz.

The Keysight 909A is furnished with an Amphenol precision 7 mm connector (APC-7). This is a broadband connector with low RF leakage and a clearly defined reference plane. In addition, the connector is sexless, so any pair mates without an adapter. As an option, the Keysight 909A can be supplied with a type-N connector, either male or female, compatible with MIL-C-39012. These connectors mate with all styles of type-N connectors and are made of stainless steel for durability.



#### Specifications:

Specifications describe the product's warranted performance. Supplemental and typical characteristics are intended to provide typical but non-warranted performance parameters. These are denoted as "typical", "nominal" or "approximate".

Model Number	909A
Frequency range	DC to 18 GHz
Impedance	50 $\Omega$
Connectors	Option 701 Precision 7 mm (APC-7) Option 012 Type N (male) Option 013 Type N (female)
Reflection coefficient	Option 701 DC to 4 GHz: 0.024 (1.05 SWR) 4 to 12.4 GHz: 0.048 (1.10 SWR) 12.4 to 18 GHz: 0.110 (1.25 SWR) Option 012 and 013 DC to 4 GHz: 0.029 (1.06 SWR) 4 to 12.4 GHz: 0.052 (1.11 SWR) 12.4 to 18 GHz: 0.130 (1.30 SWR)
Power rating	2 W average 300 W peak

## Environmental Specifications:

Keysight 909A is designed to fully comply with Keysight Technologies' product operating environment specifications. The following are the summarized environmental specifications for this product.

Parameter	Required Values/Ranges
Temperature	+15 °C to +35 °C (+59 °F to +95 °F)
- Operation	-40 °C to +75 °C (-40 °F to +167 °F)
- Storage	
Altitude	< 4,500 m (15,000 ft)
- Operation	< 15,000 m (50,000 ft)
- Storage	
Relative humidity	Always non-condensing
- Operation	0 % to 80 % (26 °C maximum dry bulb)
- Storage	0 % to 95 %
Vibration	0.015", 5-55-5 Hz, 15 min, 3 axes
Shock	100 g, 1-2 ms, 3 times each plane

## Ordering Information:

909A DC to 18 GHz coaxial terminations

- Option 701 Precision 7 mm (APC-7) connector
- Option 012 Type N (male) connector
- Option 013 Type N (female) connector

[www.keysight.com/find/mta](http://www.keysight.com/find/mta)

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