DATASHEET

RF Coaxial Terminations ›

RF Coaxial Terminations provide superior heat dissipation at power levels up to 50W, deliver precision impedance matching, support frequencies from DC to 40 GHz and offer robust long-term reliability. The terminations help optimize signal integrity and power transfer in high-frequency applications and demanding environments, including telecommunications, broadcasting and aerospace/defense.

ADVANTAGES AND FEATURES

Offers exceptional durability and environmental resilience

The terminations are engineered with solderless contacts to withstand wide temperature ranges, shock and vibration forces, and harsh environmental conditions.

Enables compatibility with various RF connector types

Connectors include 2.92mm, N-Type and SMA; also allows for compatibility with 3.50mm, K-type and MIL-STD-348 connectors.

Provides high performance for precision applications

With a low voltage standing wave ratio (VSWR) typically between 1.20:1 and 1.35:1, and impedance matching to 50 Ohms, these terminations deliver efficient power transfer and reliable performance.

Connector	2.92mm, N-Type, SMA
Power Handling	0.5 to 50W
Frequency	DC to 40 GHz
VSWR (max.)	1.20:1 to 1.35:1
Impedance	50 Ohms
Operating Temperatures	-55 to +125°C (2.92mm) -65 to +125°C (N-Type, SMA)

Delivers reliable power handling

Precision resistors for various power ratings help ensure terminations deliver consistent power handling across wide temperature ranges.

Offers vertical integration

Components are manufactured in the US, for enhanced supply chain control.

Simplifies system design with a range of options

Options include terminations in various power ranges, power-handling capabilities and connector types, including products that comply with stringent aerospace and defense standards.

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MARKETS AND APPLICATIONS

Aerospace/Defense

Electronic warfare systems
Radar systems
Missile defense systems
Military aircraft
Global positioning system (GPS) devices
Military radios
SATCOM uplinks
Ship signal exploitation devices
Counter-IED systems
Simulation systems

Military Aircraft

Cell-Site Infrastructures

Test and Measurement Equipment

Wireless Infrastructure

Wireless devices
Cell-site infrastructures
Point-to-point communication systems
In-flight wireless systems
Public safety and transportation systems
RF generators
4G/5G/6G testing and measurement equipment
Distributed antenna systems

Telecommunications

Mobile network testing equipment
Wireless communications test systems
Broadcasting and multimedia devices
Network analyzers
Spectrum analyzers
Signal generators
Test and measurement equipment

SPECIFICATIONS

RF Coaxial Terminations—2.92mm Connector

Reference Information

Packaging: Bag
Designed in: Inches
RoHS: Yes

Electrical

Frequency: DC to 40 GHz
Voltage Standing Wave Ratio (VSWR): 1.20:1
Input Power: 1W @ +25°C
  Derated linearity to 0W @ +125°C
Impedance: 50 Ohms

Mechanical

Connector Type: 2.92mm (SMK)
Mates with: SMA, K and 3.50mm
Length:
  Male: 0.58" ± 0.05" (14.70 ± 1.30mm)
  Female: 0.62" ± 0.05" (15.70 ± 1.30mm)
Bead Chain:
  Length: 3.5" (89.00mm)
  Diameter: 0.13" (3.30mm)
Diameter: 0.28" (7.10mm)

Physical

Housing: Passivated stainlesss steel
Conductor: Gold-plated beryllium copper
Bead Chain: Passivated stainless steel
Operating Temperatures: -55 to +125°C

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SPECIFICATIONS

RF Coaxial Terminations—N-Type Connector

Reference Information
Packaging: Bag
Designed in: Inches
RoHS: Yes

Electrical
Frequency: DC to 18 GHz
Voltage Standing Wave Ratio (VSWR):
- DC to 4 GHz: 1.10:1
- 4 to 8 GHz: 1.15:1
- 8 to 12.4 GHz: 1.20:1
- 12.4 to 18 GHz: 1.25:1

Input Power: 2W @ +25°C
- Derated linearity to 1W @ +125°C

Impedance: 50 Ohms

Mechanical
Connector Type: N-Type
Mates with: MIL-STD-348
Length:
- Male: 1.17" ± 0.05" (29.70 ± 1.30mm)
- Female: 1.26" ± 0.05" (32.00 ± 1.30mm)

Bead Chain:
- Length: 3.5" (89.00mm)
- Diameter: 0.13" (3.30mm)

Diameter: 0.56" (14.20mm)

Physical
Housing: Passivated stainless steel
Conductor: Gold-plated beryllium copper
Bead Chain: Passivated stainless steel
Operating Temperatures: -65 to +125°C

RF Coaxial Terminations—SMA Connector

Reference Information
Packaging: Bag
Designed in: Inches
RoHS: Yes

Electrical
Frequency: DC to 26.5 GHz
Voltage Standing Wave Ratio (VSWR):
- DC to 4 GHz: 1.05:1
- 4 to 8 GHz: 1.10:1
- 8 to 12.4 GHz: 1.15:1
- 12.4 to 18 GHz: 1.20:1
- 18 to 26.5 GHz: 1.35:1

Input Power: 1W @ +25°C
- Derated linearity to 0W @ +125°C

Impedance: 50 Ohms

Mechanical
Connector Type: SMA
Mates with: MIL-STD-348
Length:
- Male: 0.42" ± 0.05" (10.70 ± 1.30mm)
- Female: 0.54" ± 0.05" (13.70 ± 1.30mm)

Bead Chain:
- Length: 3.5" (89.00mm)
- Diameter: 0.13" (3.30mm)

Diameter: 0.25" (6.40mm)

Physical
Housing: Passivated Stainless Steel
Conductor: Gold-plated beryllium copper or brass
Bead Chain: Passivated stainless steel
Temperature Coefficient: ± 250 ppm/°C
Operating Temperatures: -65 to +125°C

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