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Precision RF Coaxial Terminators ›

Helping ensure accuracy and repeatability for the next generation of high-frequency applications, Precision RF Coaxial Terminators from Molex deliver tight impedance matching and low voltage standing wave ratio (VSWR) to provide exceptional signal integrity up to 65 GHz. These rugged corrosion- and wear-resistant terminators offer multiple connector types and unit-traceable test data. Ideal for high-precision test-and-measurement, calibration, telecommunications and harsh-environment applications, these RF termination solutions help streamline system integration, ensure accuracy and minimize variability.

ADVANTAGES AND FEATURES

Offers high-frequency performance up to 65 GHz

The terminators deliver reliable performance up to mmWave bands without adding frequency-dependent mismatch, parasitics or resonance that can corrupt measurements at high frequencies.

Reduces variability that can cause false failures and retests

A variety of connector options, including SMA, N-type, 1.85, 2.4 and 2.92mm, enables use of a consistent termination family across different test setups and sites, simplifying sourcing and ensuring standardized measurements while meeting various frequency and robustness needs.

Minimizes reflections and mismatch errors through low VSWR and stable 50-Ohm impedance

Tight impedance control using precision resistive networks and material selection, with unit-traceable calibration/S-parameter data to improve measurement confidence and repeatability, helps protect sensitive front ends and ensure accurate S-parameter results.

Connectors	1.85, 2.4, 2.92mm; N-type; SMA
Power Handling	0.5 to 50W
Frequency	DC to 65 GHz
VSWR (max.)	1.20:1 to 1.35:1
Impedance	50 Ohms

Minimizes supply chain risks

Vertically integrated US-based manufacturing enhances supply chain control.

Shortens debug time by supporting consistent port discipline

Removal of “open-port” variables by using precision terminators improves measurement consistency and accelerates test-and-measurement processes.

Offers exceptional durability and environmental resilience

The terminators are constructed with solderless contacts and corrosion-resistant materials to withstand wide temperature ranges, shock and vibration forces, and harsh environmental conditions.

Reduces space requirements in high-density setups

Compact fixture-friendly RF coaxial terminators enable easier access and fewer handling errors in dense racks and fixtures, streamlining rapid A/B checks to separate device-under-test issues from cables, adapters and fixtures.



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MARKETS AND APPLICATIONS

Aerospace
Global positioning system devices
Military aircraft
Radar systems

Defense
Military radios
Missile defense systems
Simulation systems

Telecommunications
Broadcasting and multimedia equipment
Mobile network testing devices
Network analyzers
Signal generators
Spectrum analyzers
Wireless communications testers and systems

Test and Measurement
Lab, production and field RF testing equipment

Wireless Infrastructure
4G/5G testing equipment
Cell-site infrastructure
Distributed antenna systems (DAS)
In-flight wireless devices
Point-to-point communications systems
Public safety and transportation systems
RF generators
Wireless devices



Wireless Communications Testers and Systems



Field RF Testing Equipment



Cell-Site Infrastructure

SPECIFICATIONS

Precision RF Coaxial Terminators—1.85mm Connector

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

Electrical
Frequency: DC to 65 GHz
VSWR:
- DC to 10 GHz—1.20:1
- 10 to 30 GHz—1.40:1
- 30 to 65 GHz—1.55:1

Input Power: 1W @ +25°C
Derated linearity to 0.1W @ +125°C
Impedance: 50 Ohms

Mechanical
Connector Type: 1.85mm
Mates with: 1.85 and 2.4mm
Torque Specification: 8 inch-pounds (0.9N-m)
Length:
- Male—0.70" ± 0.05" (17.78 ± 1.30mm)
- Female—0.80" ± 0.05" (20.32 ± 1.30mm)

Diameter:
- Male—0.31" (7.87mm)
- Female—0.30" (7.62mm)

Physical
Housing: Passivated stainless steel
Conductor: Gold-plated beryllium copper
Barrel and Coupling Nut: Passivated stainless steel
Operating Temperatures: -55 to +100°C

PRODUCT OVERVIEW SHEET

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Precision RF Coaxial Terminators ›

SPECIFICATIONS

Precision RF Coaxial Terminators—2.4mm Connector

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

Electrical
Frequency: DC to 50 GHz
VSWR:
- DC to 40 GHz—1.40:1
- 40 to 50 GHz—1.60:1

Input Power: 0.5W @ +25°C

Mechanical
Connector Type: 2.4mm
Mates with: 1.85 and 2.4mm
Torque Specification: 8 inch-pounds (0.9N-m)
Length:
- Male—0.76" ± 0.05" (19.30 ± 1.30mm)
- Female—0.79" ± 0.05" (20.07 ± 1.30mm)

Diameter: 0.30" (7.62mm)
Bead Chain:
- Length—3.5" (89.00mm)
- Diameter—0.13" (3.30mm)

Physical
Housing: Gold-plated beryllium copper
Conductor: Gold-plated beryllium copper
Barrel and Coupling Nut: Passivated stainless steel
Operating Temperatures: -45 to +85°C

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)

Diameter: 0.28" (7.10mm)
Bead Chain:
- Length: 3.5" (89.00mm)
- Diameter: 0.13" (3.30mm)

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

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
Torque Specification: 12 to 15 inch-pounds (1.4 to 1.7N-m)
Length:
- Male—1.17" ± 0.05" (29.70 ± 1.30mm)
- Female—1.26" ± 0.05" (32.00 ± 1.30mm)

Diameter: 0.56" (14.20mm)
Bead Chain:
- Length—3.5" (89.00mm)
- Diameter—0.13" (3.30mm)

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

DATASHEET

RF Coaxial Terminations ›

SPECIFICATIONS

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
Torque Specification: 7 to 10 inch-pounds (0.8 to 1.1N-m)
Length:
- Male—0.42" ± 0.05" (10.70 ± 1.30mm)
- Female—0.54" ± 0.05" (13.70 ± 1.30mm)

Diameter: 0.25" (6.40mm)
Bead Chain:
- Length—3.5" (89.00mm)
- Diameter—0.13" (3.30mm)

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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