

Fixed RF Coaxial Attenuators >

Delivering precise signal power control and exceptional signal integrity, Fixed RF Coaxial Attenuators provide accuracy and durability to ensure consistent long-term performance. The attenuators are ideal for a wide range of applications that require reliable accuracy in harsh conditions and are available with various connector types, fixed attenuation values and frequency ranges.

FEATURES AND ADVANTAGES

Provides precise attenuation for a wide frequency range

Using precision engineering, advanced modeling, and in-house manufacturing of thick- and thin-film circuits, these attenuators deliver accurate and consistent power levels and low passive intermodulation (PIM) for high-performance applications.

Simplifies system design with a range of options

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

Features exceptional durability and environmental resilience

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

Connector	2.92mm, N-Type, SMA
Power Handling	0.5 to 100W
Frequencies	DC to 40 GHz
VSWR (max.)	1.35:1 to 1.40:1, depending on version
Impedance	50 Ohms
Operating Temperatures	-65 to +125°C

Delivers reliable power handling up to 100W

Attenuators for various power ratings and attenuation values help ensure consistent power handling for critical applications.

Offers vertical integration

Parts are manufactured in the U.S., affording enhanced supply chain control.

Enables compatibility with various RF connector types

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



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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 Infrastructure



Test and Measurement Equipment

Wireless Infrastructure

Wireless devices
 Cell-site infrastructure
 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

Automotive

Test environment applications

SPECIFICATIONS

Fixed RF Coaxial Attenuators—2.92mm Connector

Reference Information

Packaging: Bag
 Designed in: Millimeters

Electrical

Frequency: DC to 40 GHz
 Attenuation Accuracy:
 3 and 6 dB: ± 0.8 dB
 10, 20 and 30 dB: ± 1.0 dB
 Voltage Standing Wave Ratio (VSWR): 1.40:1
 Input Power: 0.5W @ +25°C
 Derated linearity to 0.1W @ +125°C
 Impedance: 50 Ohms

Mechanical

Connector Type: 2.92mm
 Connector Configuration: Male/female
 Mates With: SMA and 3.50mm
 Length: .88" \pm .05" (22.40 \pm 1.30mm)

Physical

Housing: Passivated Stainless Steel
 Conductors: Gold-plated Beryllium Copper
 Operating Temperatures: -65 to +125°C

Fixed RF Coaxial Attenuators

SPECIFICATIONS

Fixed RF Coaxial Attenuators—N-Type

Reference Information

Packaging: Bag
Designed in: Millimeters

Electrical

Frequency: DC to 18 GHz
Attenuation Accuracy:
1 to 6 dB: ± 0.3 dB
7 to 20 dB: ± 0.5 dB
30 dB: ± 0.75 dB
VSWR: 1.35:1 (max.)
Input Power: 2W @ +25°C
Derated linearity to 0.5W @ +125°C
Peak Power: 250W (max.)
Impedance: 50 Ohms

Mechanical

Connector Type: Type N
Connector Configuration: Male/female
Mates With: MIL-STD-348
Length: 1.76" $\pm .03$ " (44.70 ± 0.80 mm)

Physical

Housing: Passivated Stainless Steel
Conductors: Gold-plated Beryllium Copper
Operating Temperatures: -65 to +125°C

Fixed RF Coaxial Attenuators—SMA

Reference Information

Packaging: Bag
Designed in: Millimeters

Electrical

Frequency: DC to 18 GHz
Attenuation Accuracy:
0 to 6 dB: ± 0.3 dB
7 to 20 dB: ± 0.5 dB
21 to 30 dB: ± 0.75 dB
31 to 40 dB: ± 1.5 dB
VSWR: 1.35:1 (max.)
Input Power: 2W @ +25°C with derated linearity
to 0.5W @ +125°C 5W @ +25°C with derated
linearity to 1W @ +125°C
Peak Power: 250W (max.)
Impedance: 50 Ohms

Mechanical

Connector Type: SMA
Connector Configuration: Male/female
Mates With: SMA and 3.50mm
Length:
0 to 12 dB: .86" $\pm .03$ " (21.80 ± 0.80 mm)
13 to 30 dB: .99" $\pm .03$ " (25.80 ± 0.80 mm)
31 to 40 dB: 1.20" $\pm .05$ " (30.50 ± 1.30 mm)

Physical

Housing: Passivated Stainless Steel
Conductors: Gold-plated Beryllium Copper
Operating Temperatures: -65 to +125°C