

# 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:  $\pm 0.8$  dB  
10, 20 and 30 dB:  $\pm 1.0$  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

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## 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:  $\pm 0.3$  dB  
7 to 20 dB:  $\pm 0.5$  dB  
30 dB:  $\pm 0.75$  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  $\pm$  0.80mm)

#### 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:  $\pm 0.3$  dB  
7 to 20 dB:  $\pm 0.5$  dB  
21 to 30 dB:  $\pm 0.75$  dB  
31 to 40 dB:  $\pm 1.5$  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  $\pm$  0.80mm)  
13 to 30 dB: .99"  $\pm$  .03" (25.80  $\pm$  0.80mm)  
31 to 40 dB: 1.20"  $\pm$  .05" (30.50  $\pm$  1.30mm)

#### Physical

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