

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 50 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.

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.

Offers vertical integration

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



Fixed RF Coaxial Attenuators ➤

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