

2W/20 dB RF Fixed Attenuator, SMA Male to SMA Female Brass Gold Body Up to 3 GHz



LCAT1002-20

Features

- SMA connector interface
- DC to 3 GHz Frequency Range
- Attenuation 20±0.6 dB
- Max Power 2 Watt (CW)
- VSWR < 1.2:1

Applications

- Instrumentation
- RF test systems
- Prototyping and characterization
- Production systems
- Precision measurements

Description

L-com carries a wide range of fixed attenuators with a broad selection of attenuation levels and frequency ranges. RF fixed attenuators lower the amplitude of a signal (attenuate) by specific amount and can be used in a wide variety of applications. These attenuators are used when signal levels need to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to optimal power range.

Few RF components are as commonly used as fixed coaxial attenuators, and L-com carries one of the largest in-stock varieties and ships them same day. The 20 dB Fixed Attenuator LCAT1002-20 is rated to 2 Watts and operates from DC to 3 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		0.6		dB
VSWR			1.2:1	
Input Power, CW			2	Watts
0.5W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse with 0.2% duty cycle				

Mechanical Specifications

Size

Length	1.1811 in [30 mm]
Width/Diameter	0.312 in [7.92 mm]
Weight	0.022 lbs [9.98 g]
Body Material and Plating	Brass, Gold

Configuration

Design	Fixed
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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 inch	
Body Material and Plating	Brass, Gold	Brass, Gold

Environmental Specifications

Temperature Operating Range	-55 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

2W/20 dB RF Fixed Attenuator, SMA Male to SMA Female Brass Gold Body Up to 3 GHz from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/coaxial-2w-20-db-rf-fixed-attenuator-sma-male-to-sma-female-brass-gold-body-up-to-3-ghz-p.aspx>

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