

# 2W/1dB RF Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Up to 6 GHz



LCAT1000-01

# **RF Fixed Attenuators Technical Data Sheet**

#### **Features**

- SMA connector interface
- DC to 6 GHz Frequency Range
- Attenuation 1±0.5 dB

### Applications

- Instrumentation
- RF test systems
- · Prototyping and characterization

#### • Max Power 2 Watt (CW)

- VSWR < 1.2:1
- 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 1 dB Fixed Attenuator LCAT1000-01 is rated to 2 Watts and operates from DC to 6 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		6	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		0.5		dB
VSWR			1.2:1	
Input Power, Peak			200	Watts
5µs pulse @ 0	0.01% duty cycle			
Input Power, CW			2	Watts
10% @ 125°C	FROM 25°C			

#### **Mechanical Specifications**

Size
Length
Width/Diameter
Weight Body Material and Plating

Configuration Design 0.86 in [21.84 mm] 0.312 in [7.92 mm] 0.01027 lbs [4.66 g] Passivated Stainless Steel

Fixed



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## Connectors

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

### **Environmental Specifications**

**Temperature** Operating Range

-65 to +125 deg C

### **Compliance Certifications**

#### **Plotted and Other Data**

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.

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LCAT1000-01 CAD Drawing 2W/1dB RF Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Up to 6 GHz

