

2W/3dB RF Fixed Attenuator, SMA Male to SMA Female  
Passivated Stainless Steel Body Up to 6 GHz



**LCAT1000-03**

**Features**

- SMA connector interface
- DC to 6 GHz Frequency Range
- Attenuation 3±0.5 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 3 dB Fixed Attenuator LCAT1000-03 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          |         | 3       |         | dB    |
| Attenuation Accuracy         |         | 0.5     |         | dB    |
| VSWR                         |         |         | 1.2:1   |       |
| Input Power, CW              |         |         | 2       | Watts |
| 10% @ 125°C FROM 25°C        |         |         |         |       |
| Input Power, Peak            |         |         | 200     | Watts |
| 5µs pulse @ 0.01% duty cycle |         |         |         |       |

**Mechanical Specifications**

**Size**

- Length 0.86 in [21.84 mm]
- Width/Diameter 0.312 in [7.92 mm]
- Weight 0.01027 lbs [4.66 g]
- Body Material and Plating Passivated Stainless Steel

**Configuration**

- Design Fixed

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**Connectors**

| Description                          | Connector 1                | Connector 2                |
|--------------------------------------|----------------------------|----------------------------|
| Type                                 | 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**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Temperature</b><br>Operating Range | -65 to +125 deg C |
|---------------------------------------|-------------------|

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

2W/3dB RF Fixed Attenuator, SMA Male to SMA Female Passivated Stainless Steel Body Up to 6 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-3db-rf-fixed-attenuator-sma-male-to-sma-female-passivated-stainless-steel-body-up-to-6-ghz-p.aspx>

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