

1 dB Fixed Attenuator 75 Ohm F Male to F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz



LCAT7396-1

Features

- DC to 3 GHz Frequency Range
- Attenuation 1±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.3:1

Applications

- Instrumentation
- Cable TV and Video Distribution
- Prototyping and characterization
- Production systems

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 LCAT7396-1 is rated to 2 Watts and operates from DC to 3 GHz. The versatile coaxial package uses type F male to type F female connectors and is also REACH and RoHS compliant.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 3 | GHz |
| Impedance | | 75 | | Ohms |
| Nominal Attenuation | | 1 | | dB |
| VSWR | | | 1.3:1 | |
| Input Power, CW | | | 2 | Watts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------------|---------|--------|----|----|----|-------|
| Frequency Range | DC to 2 | 2 to 3 | | | | GHz |
| Attenuation Accuracy, Typ | 0.3 | 0.5 | | | | dB |

Mechanical Specifications

Size

| | |
|---------------------------|--------------------|
| Length | 2.02 in [51.31 mm] |
| Width/Diameter | 0.43 in [10.92 mm] |
| Weight | 0.06 lbs [27.22 g] |
| Body Material and Plating | Brass, Tri-Metal |

Configuration

| | |
|---------------|----------------------|
| Design | Fixed |
| Package Style | Connectorized Module |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------|-----------------------|
| Type | F Male | F Female |
| Contact Material and Plating | Brass, Gold | Phosphor Bronze, Gold |
| Contact Plating Specification | 4μ-inch min. | 4μ-inch min. |
| Dielectric Type | Teflon | Teflon |
| Coupling Nut Material and Plating | Brass, Tri-Metal | |
| Hex Size | 7/16 in. | |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 100μ-inch min. | 100μ-inch min. |

Environmental Specifications

Temperature

Operating Range -55 to +80 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

1 dB Fixed Attenuator 75 Ohm F Male to F Female Brass Tri-Metal Body Rated to 2 Watts 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/1-db-fixed-attenuator-75-ohm-f-male-f-female-brass-tri-metal-body-rated-2-watts-up-3-ghz-lcat7396-1-p.aspx>

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LCAT7396-1 CAD Drawing

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