

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



## LCAT7396-5

### RF Fixed Attenuators Technical Data Sheet

#### Features

- DC to 3 GHz Frequency Range
- Attenuation 5±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 5 dB Fixed Attenuator LCAT7396-5 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 |         | 5       |         | dB    |
| VSWR                |         |         | 1.3:1   |       |
| Input Power, CW     |         |         | 2       | Watts |

#### Specifications by Frequency

| Description                  | F1      | F2     | F3 | F4 | F5 | Units |
|------------------------------|---------|--------|----|----|----|-------|
| Range                        | DC to 2 | 2 to 3 |    |    |    | GHz   |
| Attenuation Accuracy, Typ0.3 |         | 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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[5 dB Fixed Attenuator 75 Ohm F Male to F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz LCAT7396-5](#)

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## LCAT7396-5

### 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

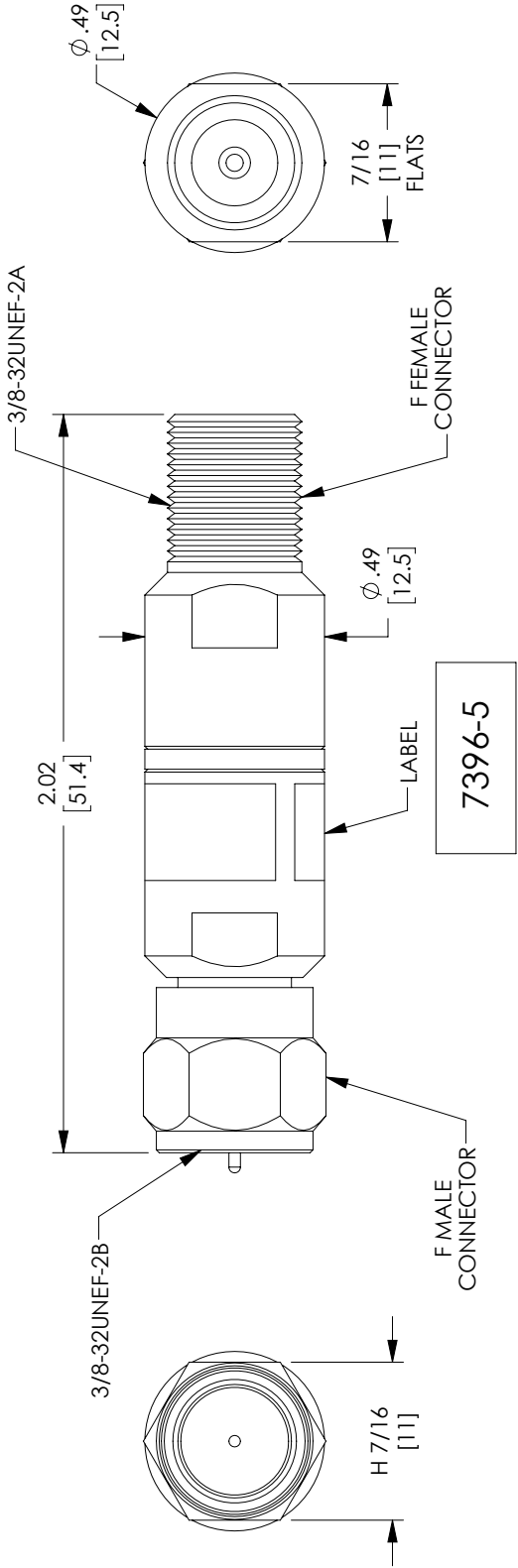
### Plotted and Other Data

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.

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume any liability arising out of the use of any part or documentation.

**LCAT7396-5 CAD Drawing**  
5 dB Fixed Attenuator 75 Ohm F Male to F Female Brass Tri-Metal Body Rated to 2 Watts Up to 3 GHz

| REVISIONS |                 |            |
|-----------|-----------------|------------|
| REV.      | DESCRIPTION     | DATE       |
| A         | INITIAL RELEASE | 07/19/2022 |
|           |                 | APPROVED   |
|           |                 | SPONG      |



|                                                                                                                                                                                                                                                                |                 |                                                                                                                                                                                                                                                              |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Lcom</b><br>an INFINIT <sup>®</sup> brand<br>50 High Street, West Mill, 3rd Floor, Suite #30<br>North Andover, MA 01845 USA<br>Phone: 1.800.341.5266   1.978.682.6936<br>Fax: 1.978.689.9484<br>Website: www.L-com.com<br>E-mail: CustomerService@L-com.com |                 | THIRD-ANGLE PROJECTION<br><br>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |                     |
| SIZE A                                                                                                                                                                                                                                                         | CAGE CODE 43321 | DRAWN BY BPUCHASKI                                                                                                                                                                                                                                           | ITEM NO. LCAT7396-5 |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                                                                                                  |                 | REV A                                                                                                                                                                                                                                                        |                     |

TOLERANCES:  
X = ±.2 [5.08] FRACTIONS  
XX = ±.02 [.51] ANGLES ± 1°  
XXX = ±.005 [.13]  
CABLE LENGTH (L) TOLERANCES:  
L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0  
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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