

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



**LCAT7396-7**

**Features**

- DC to 3 GHz Frequency Range
- Attenuation 7±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 7 dB Fixed Attenuator LCAT7396-7 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		7		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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## LCAT7396-7

### 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

7 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/7-db-fixed-attenuator-75-ohm-f-male-f-female-brass-tri-metal-body-rated-2-watts-up-3-ghz-lcat7396-7-p.aspx>

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# LCAT7396-7 CAD Drawing

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

  

The drawing shows a side view of the attenuator with the following dimensions and labels:

- Overall length: 2.02 [51.4]
- Male connector: 3/8-32UNEF-2B
- Female connector: 3/8-32UNEF-2A
- Body diameter:  $\phi .49$  [12.5]
- Flats: 7/16 [11]
- Label: 7396-7

End views show the male and female connector details with dimensions H 7/16 [11] and  $\phi .49$  [12.5].

THIRD-ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ±.132  
 .XX = ±.02 [5.1] ±.132  
 .XXX = ±.005 [13] ANGLES ± 1°

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 = ±9.5 [241] / 0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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SCALE: N/A

SHEET 1 OF 1

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