

2W/3 dB RF fixed attenuator, TNC Male to TNC Female, Brass Body, DC to 3GHz



**LCAT7609-3**

**Features**

- DC to 3 GHz Range
- Attenuation 3 ±0.3 dB
- 2 Watts (CW) Power
- VSWR <1.25:1

**Applications**

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization

**Description**

L-com carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuators pads are used when a signal needs 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 a range that is optimal.

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 Attenuators LCAT7609-3 is rated to 2 Watts and operates from DC to 3 GHz. The versatile coaxial package uses TNC male to TNC female connectors.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy		0.3		dB
VSWR			1.25:1	
Input Power, CW			2	Watts

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 3				GHz
VSWR, Max	1.15:1	1.25:1				

**Mechanical Specifications**

**Size**

- Length 2.087 in [53.01 mm]
- Width/Diameter 0.63 in [16 mm]
- Height 0.63 in [16 mm]
- Weight 0.1 lbs [45.36 g]
- Body Material and Plating Brass, Copper-Tin-Zinc Alloy

**Configuration**

- Design Fixed, Bidirectional

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## LCAT7609-3

### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy	Brass, Copper-Tin-Zinc Alloy

### Environmental Specifications

#### Temperature

Operating Range -50 to +85 deg C

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

### Plotted and Other Data

Notes:

### Typical Performance Data

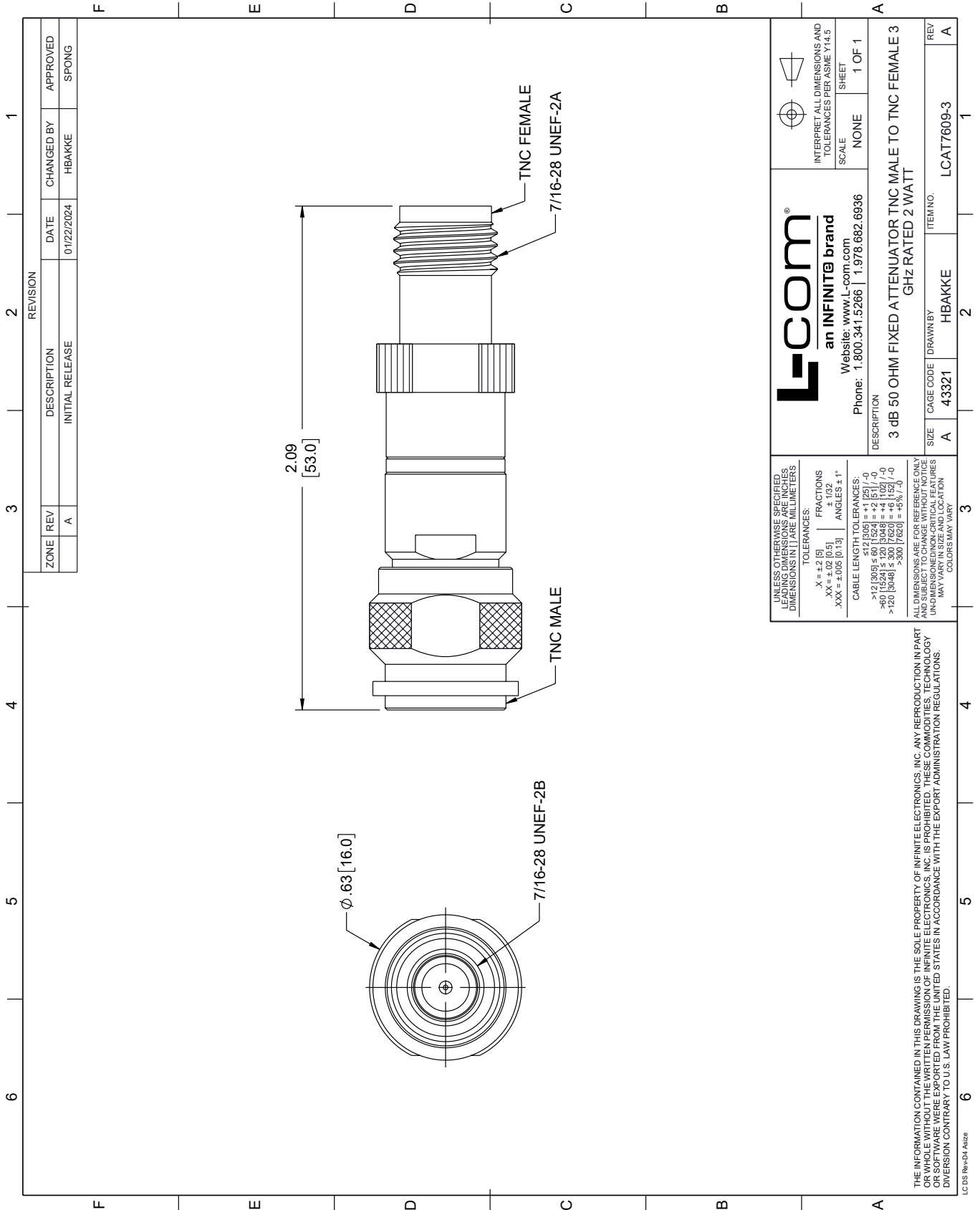
2W/3 dB RF fixed attenuator, TNC Male to TNC Female, Brass Body, DC to 3GHz from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/3db-fixed-tnc-male-tnc-female-2-watts-attenuator-lcat7609-3-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# L-CAT7609-3 CAD Drawing

2W/3 dB RF fixed attenuator, TNC Male to TNC Female, Brass Body, DC to 3GHz



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			SPONG

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Website: www.L-com.com  
Phone: 1.800.341.5266 | 1.978.682.6936

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: 3 dB 50 OHM FIXED ATTENUATOR TNC MALE TO TNC FEMALE 3 GHz RATED 2 WATT

SIZE	A	CAGE CODE	43321	DRAWN BY	HBAKKE	ITEM NO.	L-CAT7609-3
REV	A						

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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