

15 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



**LCAT7469-15**

**Features**

- DC to 12 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 15 dB  $\pm$ 1 dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.35:1

**Applications**

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- WIFI 6E
- 5G Cellular bands

**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 attenuator 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 15 dB Fixed Attenuator LCAT7469-15 is rated to and operates from DC to 12 GHz. The versatile coaxial package uses TNC female to TNC male connectors.

**Electrical Specifications**

| Description         | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range     | DC      |         | 12      | GHz   |
| Impedance           |         | 50      |         | Ohms  |
| Nominal Attenuation |         | 15      |         | dB    |
| VSWR                |         |         | 1.35:1  |       |
| Input Power, CW     |         |         | 2       | Watts |

**Specifications by Frequency**

| Description               | F1      | F2     | F3      | F4       | F5 | Units |
|---------------------------|---------|--------|---------|----------|----|-------|
| Frequency Range           | DC to 2 | 2 to 5 | 5 to 10 | 10 to 12 |    | GHz   |
| VSWR, Max                 | 1.15:1  | 1.25:1 | 1.35:1  | 1.35:1   |    |       |
| Attenuation Accuracy, Typ | 0.2     | 0.3    | 0.5     | 1        |    | dB    |

**Mechanical Specifications**

**Size**

- Length 2.09 in [53.09 mm]
- Width/Diameter 0.63 in [16 mm]
- Height 0.63 in [16 mm]
- Weight 0.09 lbs [40.82 g]
- Body Material and Plating Brass, Tri-Metal

15 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



## LCAT7469-15

### Configuration

|               |                       |
|---------------|-----------------------|
| Design        | Fixed, Bi-Directional |
| Package Style | Conectorized          |

### Connectors

| Description                  | Connector 1           | Connector 2           |
|------------------------------|-----------------------|-----------------------|
| Type                         | TNC Female            | TNC Male              |
| Contact Material and Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Dielectric Type              | Teflon                | Teflon                |
| Body Material and Plating    | Brass, Tri-Metal      | Brass, Tri-Metal      |

### Environmental Specifications

#### Temperature

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

### Plotted and Other Data

Notes:

### Typical Performance Data

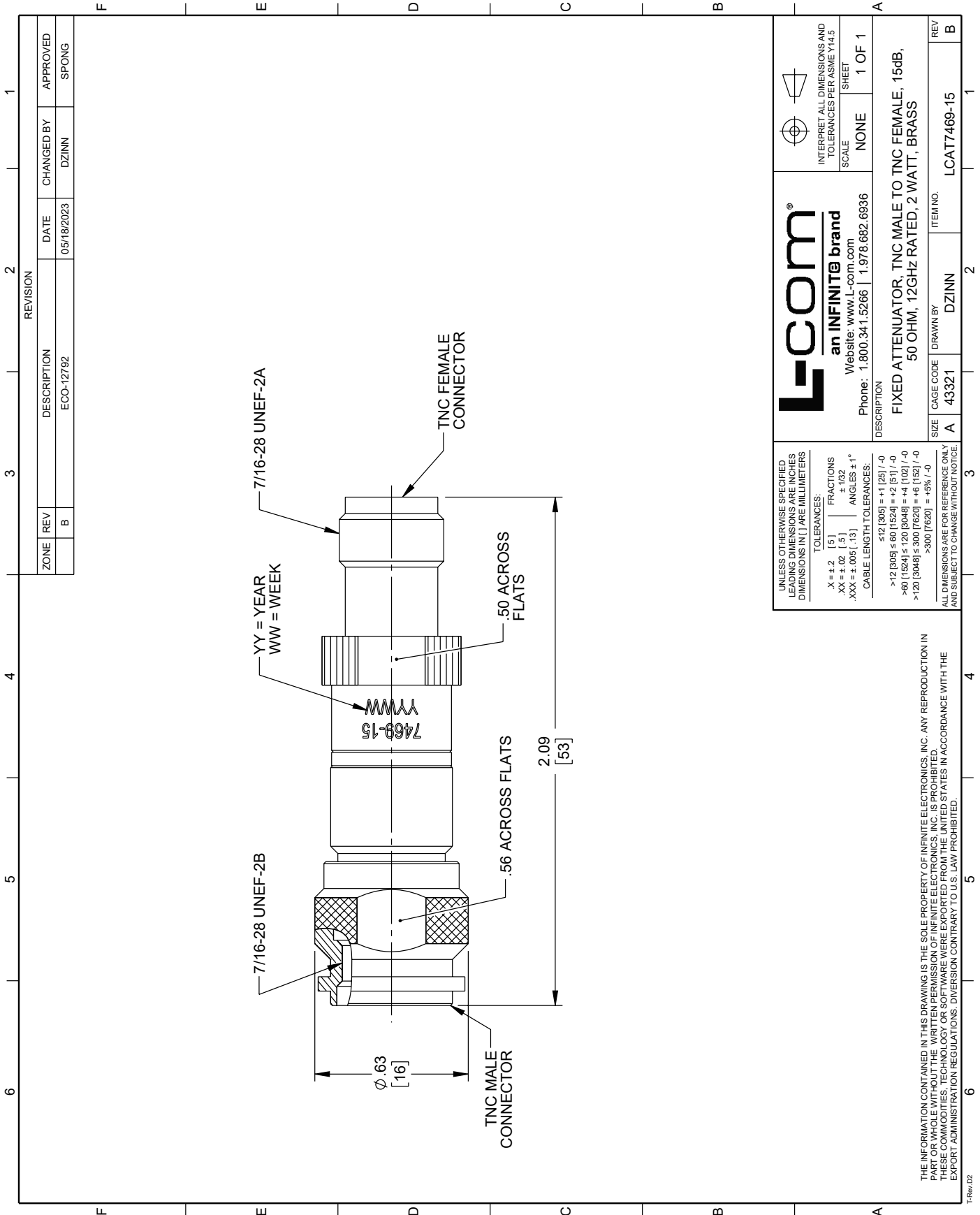
15 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/15-db-fixed-attenuator-tnc-male-plug-tnc-female-jack-dc-12-ghz-rated-2-watts-brass-body-1.35-1-vswr-lcat7469-15-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 impliment 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-COM CAD Drawing

15 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) DC to 12 GHz Rated to 2 Watts, Brass Body, 1.35:1 VSWR



| ZONE | REV | DESCRIPTION | DATE       | CHANGED BY | APPROVED |
|------|-----|-------------|------------|------------|----------|
|      | B   | ECO-12792   | 05/18/2023 | DZINN      | SPONG    |

| REVISION |  |
|----------|--|
| 1        |  |
| 2        |  |
| 3        |  |
| 4        |  |
| 5        |  |
| 6        |  |

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
DIMENSIONS IN [ ] 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] = ±1 [25] / -0  
    >12 [305] ≤ 60 [1524] = ±2 [51] / -0  
    >60 [1524] ≤ 120 [3048] = ±4 [102] / -0  
    >120 [3048] ≤ 300 [7620] = ±8 [152] / -0  
    >300 [7620] = ±9% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

Interpret all dimensions and tolerances per ASME Y14.5

SCALE: NONE      SHEET: 1 OF 1

**L-com**  
an INFINITE brand  
Website: www.L-com.com  
Phone: 1.800.341.5266 | 1.978.682.6936

DESCRIPTION: FIXED ATTENUATOR, TNC MALE TO TNC FEMALE, 15dB, 50 OHM, 12GHz RATED, 2 WATT, BRASS

|      |           |          |             |
|------|-----------|----------|-------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.    |
| A    | 43321     | DZINN    | LCAT7469-15 |