

2W/10 dB RF fixed attenuator, TNC Male to  
TNC Female, Brass Body, DC to 3GHz



## LCAT7609-10

### Features

- DC to 3 GHz Range
- Attenuation 10  $\pm$ 0.5 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 10 dB Fixed Attenuators LCAT7609-10 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  |         | 10      |         | dB    |
| Attenuation Accuracy |         | 0.5     |         | 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                    | 0.0085 lbs [3.86 g]          |
| Body Material and Plating | Brass, Copper-Tin-Zinc Alloy |

#### Configuration

|        |                      |
|--------|----------------------|
| Design | Fixed, Bidirectional |
|--------|----------------------|

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### 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/10 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/2w-10-db-rf-fixed-attenuator-tnc-male-tnc-female-brass-body-dc-3ghz-lcat7609-10-p.aspx>

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LCAT7609-10 CAD Drawing

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