

# 10W/3 dB RF Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass Body DC to 6 GHz

# dycz-sabou

# LCAT7493-3

#### **Features**

- · DC to 6 GHz Frequency Range
- 2.2-5 Connectorized Design
- · Attenuation 3 dB ±1 dB

#### **Applications**

- Instrumentation
- · Precision Measurements
- · Prototyping and Characterization

- Max Power 10 Watts (CW)
- Max VSWR of 1.25:1
- Production Systems
- · 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 3 dB Fixed Attenuator LCAT7493-3 is rated to 10 Watts and operates from DC to 6 GHz.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy			±1	dB
VSWR			1.25:1	
Input Power, CW			10	Watts
Input Power, Peak			100	Watts
8% Duty Cycle, 20us PW				

### **Mechanical Specifications**

Size

 Length
 2.36 in [59.94 mm]

 Width/Diameter
 0.79 in [20.07 mm]

 Height
 0.79 in [20.07 mm]

 Weight
 0.066 lbs [29.94 g]

Body Material and Plating Brass, Copper-Tin-Zinc Alloy

Configuration

Design Fixed, Bidirectional Design Type Standard Package Style Connectorized



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#### **Connectors**

Description	Connector 1	Connector 2
Туре	2.2-5 Male	2.2-5 Female
Contact Material and Plating	Beryllium Copper, Silver	Beryllium Copper, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

## **Environmental Specifications**

**Temperature** 

Operating Range -40 to +75 deg C
Storage Range -50 to +85 deg C
Humidity <95%

 Shock
 IEC 60068-2-27

 Vibration
 IEC 60068-2-6-Fc

Altitude <5000m

Thermal Shock IEC 60068 -2-14-Na

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

### **Typical Performance Data**

10W/3 dB RF Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass Body DC to 6 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/6ghz-3db-10w-fixed-attenuator-2.2-5-male-2.2-5-female-lcat7493-3-p.aspx

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