

## 10W/6dB RF Fixed Attenuator, NEX10 Male to NEX10 Female Aluminum Body Up to 6 GHz



## LCAT7491-6

### **Features**

- · DC to 6 GHz Range
- NEX10 Connectorized Design
- Attenuation 6 ±1 dB

## **Applications**

- Instrumentation
- · Precision Measurements
- · Prototyping and Characterization

- Max Power 10 Watts (CW)
- VSWR 1.25:1
- · Production Systems
- · 5G Cellular Bands
- · DAS 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 6 dB Fixed Attenuator LCAT7491-6 is rated to 10 Watts and operates from DC to 6 GHz. The versatile coaxial package uses NEX10 male to NEX10 female connectors.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
Attenuation Accuracy		1		dB
VSWR			1.25:1	
Input Power, CW			10	Watts
Input Power, Peak			100	Watts
20µs pulse, 8% duty cycle				

## **Mechanical Specifications**

Size

 Length
 2.244 in [57 mm]

 Width/Diameter
 0.787 in [19.99 mm]

 Weight
 0.1 lbs [45.36 g]

 Body Material and Plating
 Aluminum

Configuration

Design Fixed, Bidirectional Design Type Standard Connectorized



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#### Connectors

Description	Connector 1	Connector 2	
Туре	NEX10 Male	NEX10 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 +85 to -50 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/6dB RF Fixed Attenuator, NEX10 Male to NEX10 Female Aluminum Body Up 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/10w-6db-rf-fixed-attenuator-nex10-male-nex10-female-aluminum-body-up-6-ghz-lcat7491-6-p.aspx

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