

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



## LCAT7492-6

### RF Fixed Attenuators Technical Data Sheet

#### Features

- DC to 6 GHz Frequency Range
- 2.2-5 Connectorized Design
- Attenuation 6 dB  $\pm$ 1 dB
- Max Power 5 Watts (CW)
- Max VSWR of 1.25:1

#### Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- 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 6 dB Fixed Attenuator LCAT7492-6 is rated to 5 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		6		dB
Attenuation Accuracy			1	dB
VSWR			1.25:1	
Input Power, Peak 8% Duty Cycle, 20us PW			50	Watts
Input Power, CW			5	Watts

#### 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
Package Style	Connectorized

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[5W/6 dB RF Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass Body DC to 6 GHz LCAT7492-6](#)

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## LCAT7492-6

### Connectors

Description	Connector 1	Connector 2
Type	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

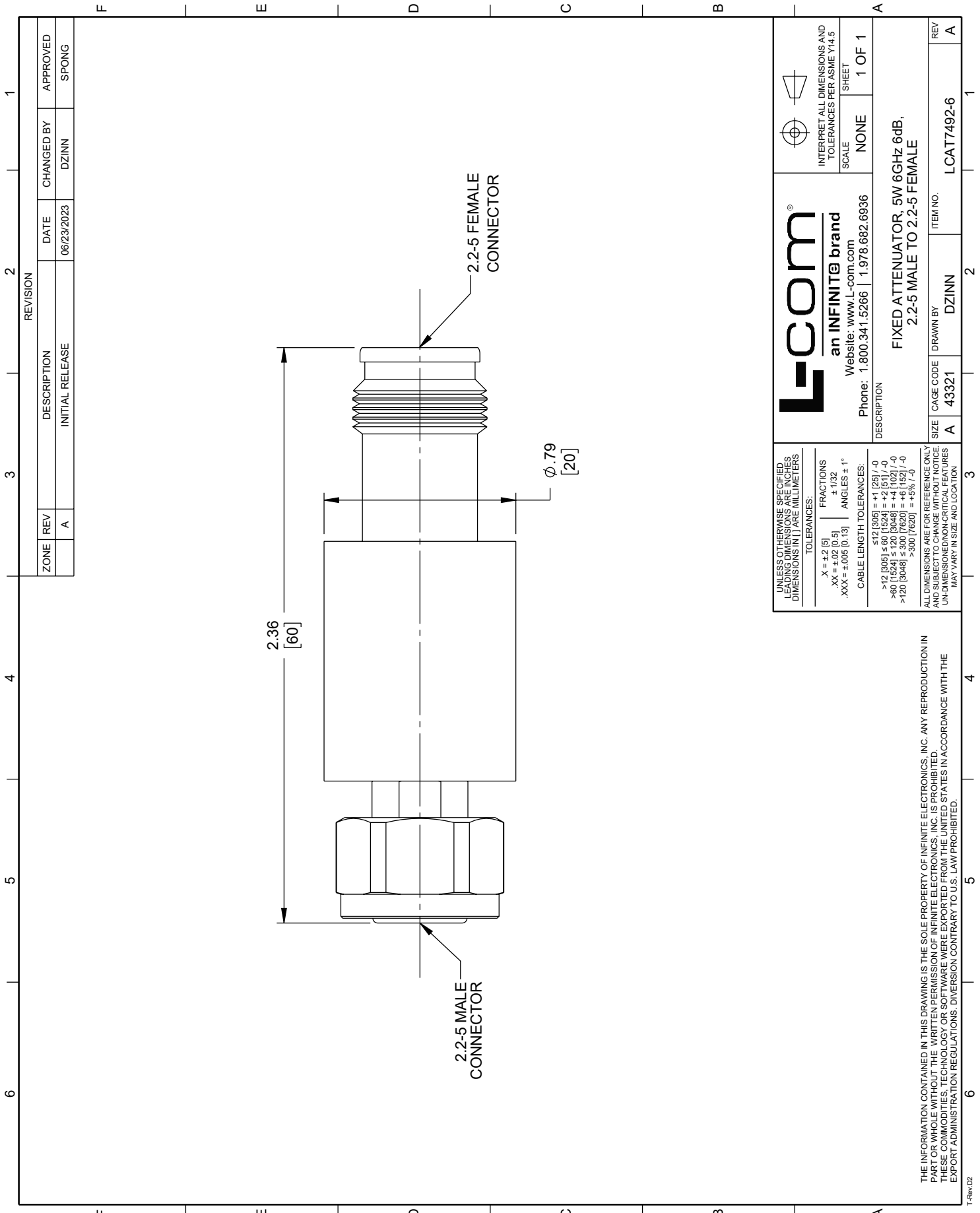
### Plotted and Other Data

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.

The information contained in 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 any liability arising out of the use of any part or documentation.

# LCAT7492-6 CAD Drawing

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



ZONE		REVISION		DATE		CHANGED BY		APPROVED	
A	1	INITIAL RELEASE		06/23/2023	DZINN			SPONG	

<p><b>L-com</b> an INFINITE brand Website: <a href="http://www.L-com.com">www.L-com.com</a> Phone: 1.800.341.5266   1.978.682.6936</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1</p>	<p>DESCRIPTION: <b>FIXED ATTENUATOR, 5W 6GHz 6dB, 2.2-5 MALE TO 2.2-5 FEMALE</b></p>
<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. FRACTIONS: X = +2 [5] ± 1/32; XX = ±0.02 [0.5]; XXX = ±0.005 [0.13]. ANGLES ± 1°. TOLERANCES: &lt;math&gt;\le 12 [305]&lt;/math&gt; = +1 [25] / -0; &lt;math&gt;\le 60 [1524]&lt;/math&gt; = +2 [51] / -0; &lt;math&gt;\le 120 [3048]&lt;/math&gt; = +4 [102] / -0; &lt;math&gt;\le 300 [7620]&lt;/math&gt; = +8 [6] / -0.</p>	<p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION.</p>	
<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR IN PART 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.</p>	<p>ITEM NO. LCAT7492-6</p>	<p>REV A</p>