

2W/5 dB Fixed Attenuator, BNC Male to BNC Female Brass Tri-Metal Body Up to 4 GHz



LCAT7437-5

Features

- DC to 4 GHz Frequency Range
- Attenuation 5 dB Typical
- Max Power 2 Watts (CW)
- VSWR < 1.25:1
- 50 Ohm Impedance

Applications

- Wireless
- Video Signal Transmission
- Radar Systems
- Test and Measurement
- Commercial and Military Communication
- Avionics

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 5 dB Fixed Attenuator LCAT7437-5 is rated to 2 Watts and operates from DC to 4 GHz. The versatile coaxial package uses BNC male to BNC female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Nominal Attenuation		5		dB
Attenuation Accuracy		0.3		dB
VSWR			1.25:1	
Input Power, CW			2	Watts

Mechanical Specifications

Size

Length	2.087 in [53.01 mm]
Width/Diameter	0.571 in [14.5 mm]
Height	0.571 in [14.5 mm]
Weight	0.057 lbs [25.85 g]
Body Material and Plating	Brass, Tri-Metal

Configuration

Design	Fixed
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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Female

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Connectors

Description	Connector 1	Connector 2
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Coupling Nut Material and Plating	Stainless Steel	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

2W/5 dB Fixed Attenuator, BNC Male to BNC Female Brass Tri-Metal Body Up to 4 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/5db-50ohm-fixed-attenuator-bnc-plug-bnc-jack-4ghz-rated-2-watt-lcat7437-5-p.aspx>

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LCAT7437-5 CAD Drawing

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REV	DESCRIPTION	RELEASED	DATE	APPROVED
A	INITIAL RELEASE		03/31/2022	S. PONG

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SEE NOTE 1.

2.09 [53.0]

$\phi .57$ [14.5]

$\phi .57$ [14.5]

7437-XX

A circular diagram representing a gear assembly. It features a central circular hub with a small circle in the middle. Surrounding the hub are several concentric circles, each with a thick outer edge. The outermost circle has a jagged, serrated edge. The entire assembly is rendered in black and white line art.

A technical line drawing of a mechanical part, possibly a cylinder or bearing housing. It features a cylindrical body with a ribbed or flared top section. The top section has a circular opening with a raised lip or seal. The side of the cylinder shows a longitudinal slot or keyway.

BNC PLUG

□

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NOTE:

ITEM IS MARKED WITH PART NUMBER WHERE SHOWN.
"-XX" DENOTES THE ATTENUATION VALUE,
EXAMPLE: 7437-1QB, 7437-10 = 10QB, ETC.

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DRAFT - 07/10/2013