

3 dB Fixed Attenuator 75 Ohm BNC Male to BNC Female Brass Tri-Metal body rated 1 Watt DC to 1 GHz



LCAT7751-3

Features

- DC to 1 GHz Frequency Range
- BNC Connectorized Design
- Attenuation 3 dB ± 0.5 dB
- Max Power 1 Watt (CW)
- Max VSWR of 1.2:1

Applications

- Instrumentation
- Cable TV and Video Distribution
- Prototyping and Characterization
- Production 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 3 dB Fixed Attenuator LCAT7751-3 is rated to 1 Watt and operates from DC to 1 GHz. The versatile coaxial package uses BNC male to BNC female connectors and is also REACH compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		75		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy		± 0.5		dB
VSWR			1.2:1	
Input Power, CW			1	Watt

Mechanical Specifications

Size

Length	2.09 in [53.09 mm]
Width/Diameter	0.57 in [14.48 mm]
Height	0.57 in [14.48 mm]
Weight	0.06 lbs [27.22 g]
Body Material and Plating	Brass, Tri-Metal

Configuration

Design	Fixed, Bidirectional
Design Type	Standard
Package Style	Connectorized

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Female
Contact Material and Plating	Phosphor bronze, Gold	Phosphor bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range -50 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

3 dB Fixed Attenuator 75 Ohm BNC Male to BNC Female Brass Tri-Metal body rated 1 Watt DC to 1 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/3-db-fixed-attenuator-75-ohm-bnc-male-bnc-female-brass-tri-metal-body-rated-1-watt-dc-1-ghz-lcat7751-3-p.aspx>

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LCAT7751-3 CAD Drawing

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