

2W/1 dB Fixed Attenuator, N Male to N Female Brass Nickel Body Up to 18 GHz



LCAT1007-01

Features

- Attenuation accuracy $1 \pm 0.6\text{dB}$
- Frequency range from DC to 18GHz
- Operating temp range from -55 to 125C
- VSWR $<1.40:1$
- Input Power 2W max

Applications

- Production systems
- Prototyping and characterization
- RF test systems
- Instrumentation
- Precision measurements

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 1 dB Fixed Attenuator LCAT1007-01 is rated to 2 Watts and operates from DC to 18 GHz. The versatile coaxial package uses type N male to type N female connectors and is also RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		0.6		dB
VSWR			1.4:1	
Input Power, CW			2	Watts
derated linearly to 0.5W @ 125°C				
Input Power, Peak			500	Watts

Electrical Specification Notes:
0.5KW (5μs pulse with 0.4% duty cycle)

Mechanical Specifications

Size

Length	3.03 in [76.96 mm]
Width/Diameter	0.787 in [19.99 mm]
Weight	0.176 lbs [79.83 g]
Body Material and Plating	Aluminum

Configuration

Design	Fixed
Package Style	Connectorized Module

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Brass, Nickel	
Body Material and Plating		Brass, Nickel

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/1 dB Fixed Attenuator, N Male to N Female Brass Nickel Body Up to 18 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/2w-1-db-fixed-attenuator-n-male-n-female-brass-nickel-body-up-18-ghz-lcat1007-01-p.aspx>

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LCAT1007-01 CAD Drawing

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