

10 dB Fixed Attenuator, N Male to N Female Aluminum Body Rated to 5 Watts Up to 3 GHz



PE7390-10

Features

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 10±0.5 dB
- Max Power 5 Watts (CW)
- VSWR < 1.2:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

Pasternack 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 Pasternack carries one of the largest in-stock varieties and ships them same day. The 10 dB Fixed Attenuator PE7390-10 is rated to 5 Watts and operates from DC to 3 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		0.5		dB
VSWR			1.2:1	
Passive Intermodulation			-100	dBc
Input Power, CW			5	Watts
derated linearly from 5W @ 25°C to .5W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse, .5% duty cycle				

Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +33dBm each.

Mechanical Specifications

Size

Length	2.76 in [70.1 mm]
Width/Diameter	0.79 in [20.07 mm]
Height	0 in [0 mm]
Weight	0.1605 lbs [72.8 g]
Body Material and Plating	Aluminum

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Configuration		
Design	Fixed, Bidirectional	
Package Style	Connectorized	

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Brass, Nickel	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:

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Typical Performance Data



