10 dB Fixed Attenuator 2.4mm Male (Plug) to 2.4mm Female (Jack) up to 50 GHz Rated to 5 Watts, Aluminum Body, 1.45:1 VSWR

FMAT7511-10

Features

- DC to 50 GHz Range
- Attenuation 10 ±1.5 dB
- 5 Watts Average Input Power
- VSWR <1.45:1

Applications

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

Description

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (attenuate) a known amount. These attenuators pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching 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 Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The FMAT7511-10 is a 10 dB Fixed Attenuators that operates from DC to 50 GHz and is rated to 5 Watts. The versatile coaxial package uses 2.4mm male to 2.4mm female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR			1.45:1	
Input Power, CW			5	Watts
Derated linearly to 0.5W @ 125°C				
Input Power, Peak			200	Watts
5µs pulse, 2.5% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 50					GHz
Attenuation Accuracy, Typ	1.5					dB

Mechanical Specifications

Size	
Length	1.49606 in [38 mm]
Width/Diameter	1.14173 in [29 mm]
Height	1.14173 in [29 mm]
Weight	0.12 lbs [54.43 g]
Body Material and Plating	Aluminum

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Configuration

Design	Fixed, Bidirectional

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	Stainless Steel

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

10 dB Fixed Attenuator 2.4mm Male (Plug) to 2.4mm Female (Jack) up to 50 GHz Rated to 5 Watts, Aluminum Body, 1.45:1 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 10 dB Fixed Attenuator 2.4mm Male (Plug) to 2.4mm Female (Jack) up to 50 GHz Rated to 5 Watts, Aluminum Body, 1.45:1 VSWR FMAT7511-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-2.4mm-male-2.4mm-female-5-watts-fmat7511-10-p.aspx

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FMAT7511-10 CAD Drawing

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