

3 dB Fixed Attenuator 1.0mm Male (Plug) to 1.0mm Female (Jack) Up to 110 GHz Rated to 0.5 Watts Passivated Stainless Steel Body 1.8:1 VSWR

FMAT7454-3

Features

- · DC to 110 GHz Frequency Range
- 1.0 mm Connectorized Design
- · Attenuation 3 dB

Applications

- Instrumentation
- · Precision Measurements

- Max Power 0.5 Watts (CW)
- Typical VSWR of 1.8:1
- · Prototyping and Characterization
- Production Systems

Description

Fairview Microwave 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 Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The 3 dB Fixed Attenuator FMAT7454-3 is rated to 0.5 Watts and operates from DC to 110 GHz. The versatile coaxial package uses 1.0 mm male to 1.0 mm female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
VSWR		1.8:1	2.5:1	
Input Power, CW			0.5	Watts
Derated linearly to 10% @ 100°C from	m 25°C			

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 60	60 to 110		GHz
VSWR, Max	1.35:1	1.55:1	1.65:1	2.5:1		
Attenuation Accuracy, Typ	0.75	1	1.5	1.5		dB

Mechanical Specifications

Size Length Width/Diameter Height Weight **Body Material and Plating**

0.5 in [12.7 mm] 0.92 in [23.37 mm] 0.46 in [11.68 mm] 0.04 lbs [18.14 g] Passivated Stainless Steel





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Configuration

Design Package Style Fixed, Bi-Directional Connectorized

Connectors

Description	Connector 1	Connector 2		
Туре	1.0mm Male	1.0mm Female		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Dielectric Type	Teflon	Teflon		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

3 dB Fixed Attenuator 1.0mm Male (Plug) to 1.0mm Female (Jack) Up to 110 GHz Rated to 0.5 Watts Passivated Stainless Steel Body 1.8:1 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: 3 dB Fixed Attenuator 1.0mm Male (Plug) to 1.0mm Female (Jack) Up to 110 GHz Rated to 0.5 Watts Passivated Stainless Steel Body 1.8:1 VSWR FMAT7454-3

URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-1.0mm-male-1.0mm-female-0.5-watts-fmat7454-3-p. aspx

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FMAT7454-3 CAD Drawing

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