20 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

FMAT7454-20

Features

- DC to 110 GHz Frequency Range
- 1.0 mm Connectorized Design
- Attenuation 20 dB

Applications

Instrumentation

· Precision Measurements

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 20 dB Fixed Attenuator FMAT7454-20 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		20		dB
VSWR		1.8:1	2.5:1	
Input Power, CW			0.5	Watts
Derated linearly to 10% @ 100°C from	m 25°C			

Derated linearly to 10% @ 100°C from 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	1	1.25	2	2.5		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] 0.08 lbs [36.29 g] Passivated Stainless Steel

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

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Configuration	
Design	Fixed, Bi-Directional
Package Style	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

20 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: 20 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 FMAT7454-20

URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-1.0mm-male-1.0mm-female-0.5-watts-fmat7454-20-p. aspx

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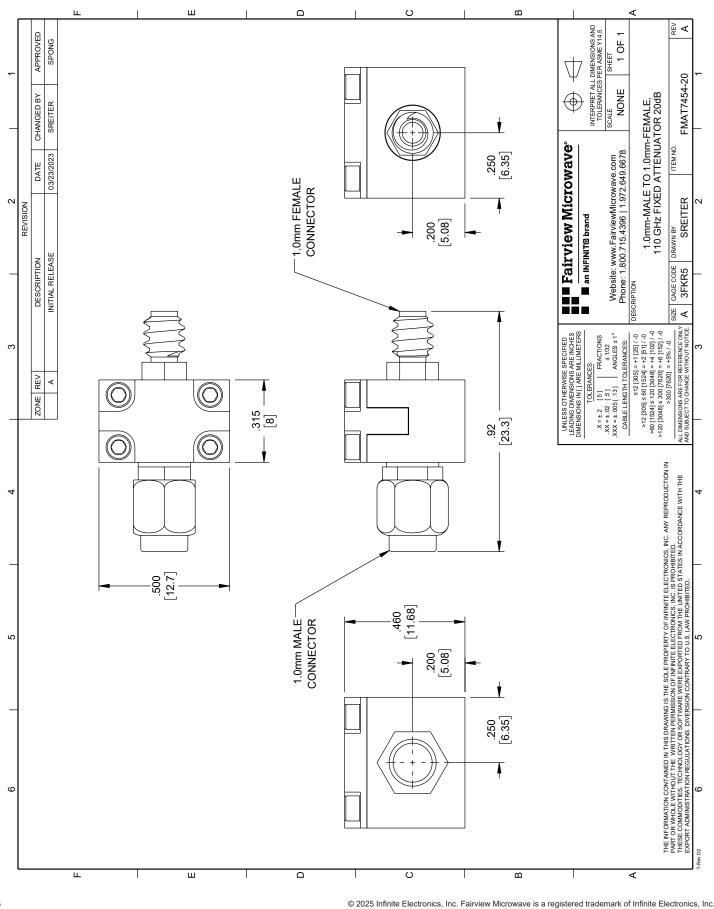
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FMAT7454-20 CAD Drawing

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