

20 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR



FMAT7713-20

Features

- DC to 67 GHz Frequency Range
- 1.85mm Connectorized Design
- Attenuation 20 dB \pm 1.5 dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.45:1

Applications

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

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 (or attenuate) a known amount. These attenuator 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 FMAT7713-20 is a 20 dB Fixed Attenuator that operates from DC to 67 GHz and is rated to 2 Watts. The versatile coaxial package uses 1.85mm male to 1.85mm female connectors and is also REACH compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		67	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		\pm 1.5		dB
VSWR			1.45:1	
Input Power, CW			2	Watts
Input Power, Peak			200	Watts
5 μ s PW with 0.5% duty cycle				

Mechanical Specifications

Size

Length	1.06 in [26.92 mm]
Width/Diameter	0.31 in [7.87 mm]
Height	0.31 in [7.87 mm]
Weight	0.02 lbs [9.07 g]
Body Material and Plating	Stainless Steel

Configuration

Design	Fixed, Bidirectional
Design Type	Standard
Package Style	Connectorized

20 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR



FMAT7713-20

Connectors

Description	Connector 1	Connector 2
Type	1.85mm Male	1.85mm 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

20 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel 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: [20 dB Fixed Attenuator 1.85mm Male \(Plug\) to 1.85mm Female \(Jack\) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR FMAT7713-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-1.85mm-male-1.85mm-female-2-watts-fmat7713-20-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMAT7713-20 CAD Drawing

20 dB Fixed Attenuator 1.85mm Male (Plug) to 1.85mm Female (Jack) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR

