

30 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



# **FMAT7713-30**

#### **Features**

- · DC to 67 GHz Frequency Range
- 1.85mm Connectorized Design
- Attenuation 30 dB ±1.5 dB

# **Applications**

- Instrumentation
- · Precision Measurements

- Max Power 2 Watts (CW)
- Max VSWR of 1.45:1
- · 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 FMAT7713-30 is a 30 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		30		dB
Attenuation Accuracy		±1.5		dB
VSWR			1.45:1	
Input Power, CW			2	Watts
Input Power, Peak			200	Watts
5µs PW with 0.5% duty cycle				

# **Mechanical Specifications**

S	İΖ	e

 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



30 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



# **FMAT7713-30**

#### Connectors

Description	Connector 1	Connector 2
Туре	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**

30 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: 30 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 FMAT7713-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-1.85mm-male-1.85mm-female-2-watts-fmat7713-30-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 impliment 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.

# FMAT7713-30 CAD Drawing

30 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

