

6 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



## FMAT7713-6

### Features

- DC to 67 GHz Frequency Range
- 1.85mm Connectorized Design
- Attenuation 6 dB  $\pm$ 1.25 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 FMAT7713-6 is a 6 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		6		dB
Attenuation Accuracy		$\pm$ 1.25		dB
VSWR			1.45:1	
Input Power, CW			2	Watts
Input Power, Peak			200	Watts
5 $\mu$ 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

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## FMAT7713-6

### 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

6 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.

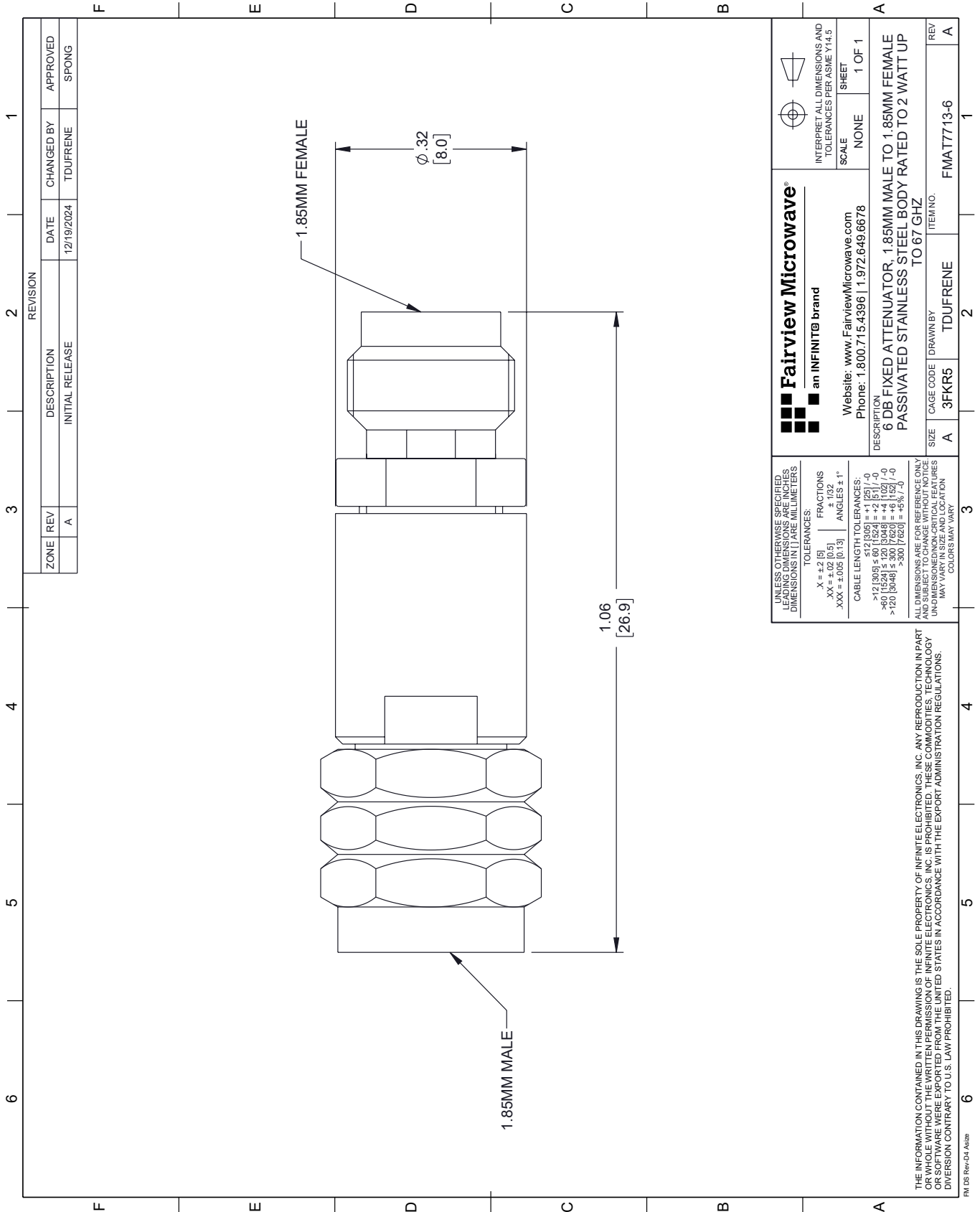
For additional information on this product, please click the following link: [6 dB Fixed Attenuator 1.85mm Male \(Plug\) to 1.85mm Female \(Jack\) DC to 67 GHz Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR FMAT7713-6](#)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-1.85mm-male-1.85mm-female-2-watts-fmat7713-6-p.aspx>

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# FMAT7713-6 CAD Drawing

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 Rated to 2 Watt, Passivated Stainless Steel Body 1.45:1 VSWR



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	TDUFRENE	SPONG
	A	INITIAL RELEASE		

 an INFINIT® brand		Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE MILLIMETERS. TOLERANCES: .X = ±.2 [5]      FRACTIONS ± 1/32 .XX = ±.02 [0.5]      ANGLES ± 1° .XXX = ±.005 [0.13]		DESCRIPTION 6 DB FIXED ATTENUATOR, 1.85MM MALE TO 1.85MM FEMALE PASSIVATED STAINLESS STEEL BODY RATED TO 2 WATT UP TO 67 GHZ	REV A
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		CAGE CODE 3FKR5	DRAWN BY TDUFRENE
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