

20 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 20 Watts, Black Aluminum Body, 1.4 VSWR



FMAT7513-20

Features

- DC to 40 GHz Range
- Attenuation 20±1.0 dB
- 20 Watts Average Input Power
- VSWR <1.4:1

Applications

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization
- 5G and 6G Communications

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 FMAT7513-20 is a 20 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 20 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		±1	±2	dB
VSWR			1.4:1	
Input Power, CW			20	Watts
25°C ambient temperature, derated linearly to 2W @125°C				
Input Power, Peak			200	Watts
5 µSec PW, 10% duty cycle				

Mechanical Specifications

Size

Length	3.15 in [80.01 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	1.5 in [38.1 mm]
Weight	0.18 lbs [81.65 g]
Body Material and Plating	Black Anodized Aluminum

Configuration

Design	Fixed, Unidirectional
Design Type	Standard

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Package Style	Connectorized	
Connectors		
Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm 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 +100 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

20 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 20 Watts, Black Aluminum Body, 1.4 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.

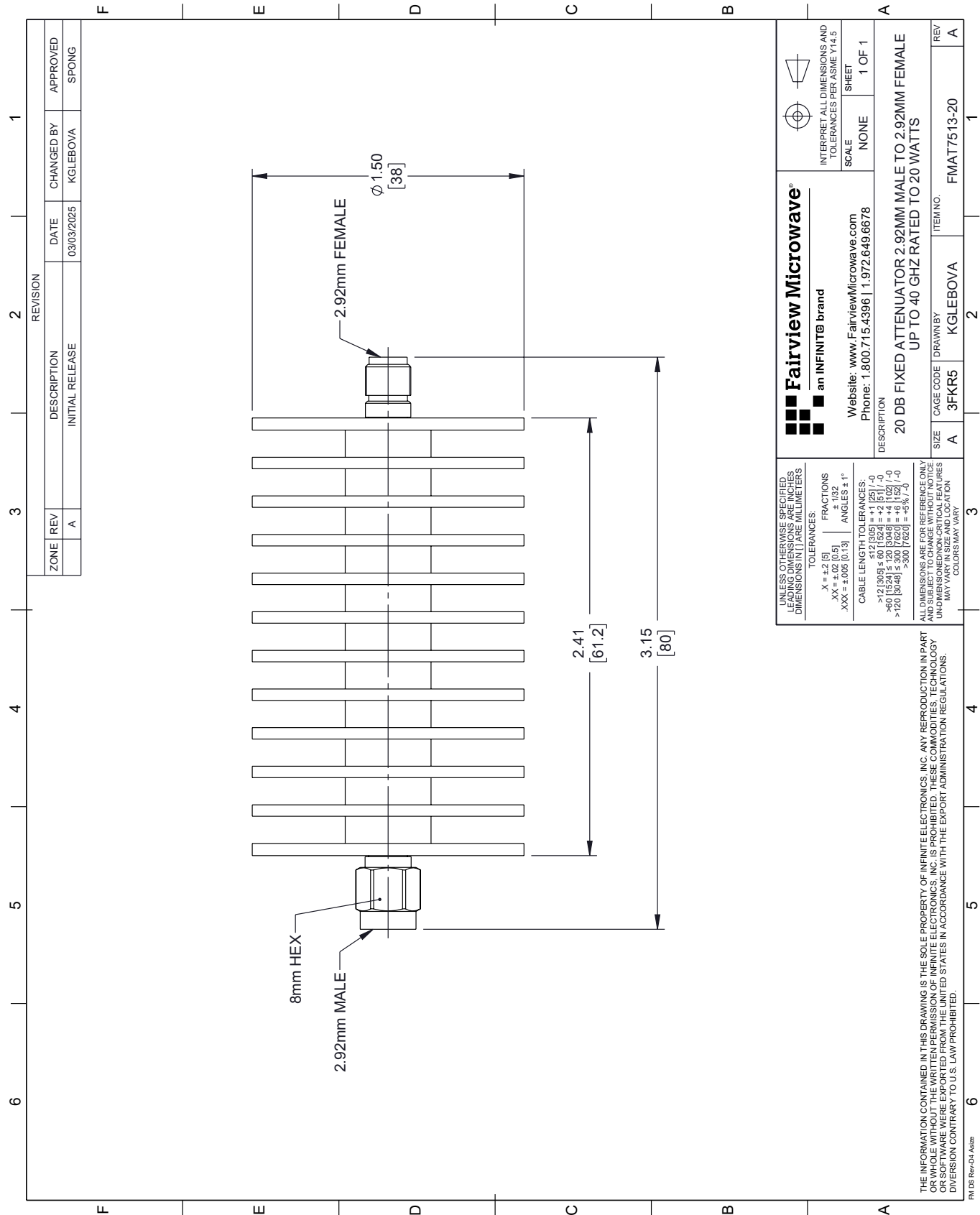
For additional information on this product, please click the following link: [20 dB Fixed Attenuator 2.92mm Male \(Plug\) to 2.92mm Female \(Jack\) Up to 40 GHz Rated to 20 Watts, Black Aluminum Body, 1.4 VSWR FMAT7513-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-2.92mm-male-2.92mm-female-20-watts-fmat7513-20-p.aspx>

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FMAT7513-20 CAD Drawing

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	A	03/03/2025	KGLEBOVA	SPONG

Fairview Microwave® an INFINITI® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	SCALE: NONE SHEET: 1 OF 1
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS MAY VARY IN SIZE AND LOCATION. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		ANGLES ± 1° CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.12 [3] / -0 >60 [1524] ≤ 120 [3048] = ±.12 [3] / -0 >120 [3048] ≤ 300 [7620] = ±.12 [3] / -0 >300 [7620] = ±.12 [3] / -0	
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SIZE	CAGE CODE	DRAWN BY	REV
A	3FKR5	KGLEBOVA	A
ITEM NO.		FMAT7513-20	