

20 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) up to 26.5 GHz Rated to 5 Watts, Black Anodized Aluminum Body, 1.35:1 VSWR



FMAT7488-20

Features

- DC to 26.5 GHz Range
- Attenuation 20 ±1.5 dB
- 5 Watts Average Input Power
- VSWR <1.35:1

Applications

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

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 (attenuate) a known amount. These attenuators 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 FMAT7488-20 is a 20 dB Fixed Attenuators that operates from DC to 26.5 GHz and is rated to 5 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.35:1	
Input Power, CW			5	Watts
Derated linearly to 0.5W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse, 1% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5					GHz
Attenuation Accuracy, Typ	1.5					dB

Mechanical Specifications

Size

Length	1.339 in [34.01 mm]
Width/Diameter	0.618 in [15.7 mm]
Weight	0.0221 lbs [10.02 g]
Body Material and Plating	Black Anodized Aluminum

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Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature Operating Range	-55 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

20 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) up to 26.5 GHz Rated to 5 Watts, Black Anodized Aluminum Body, 1.35:1 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.

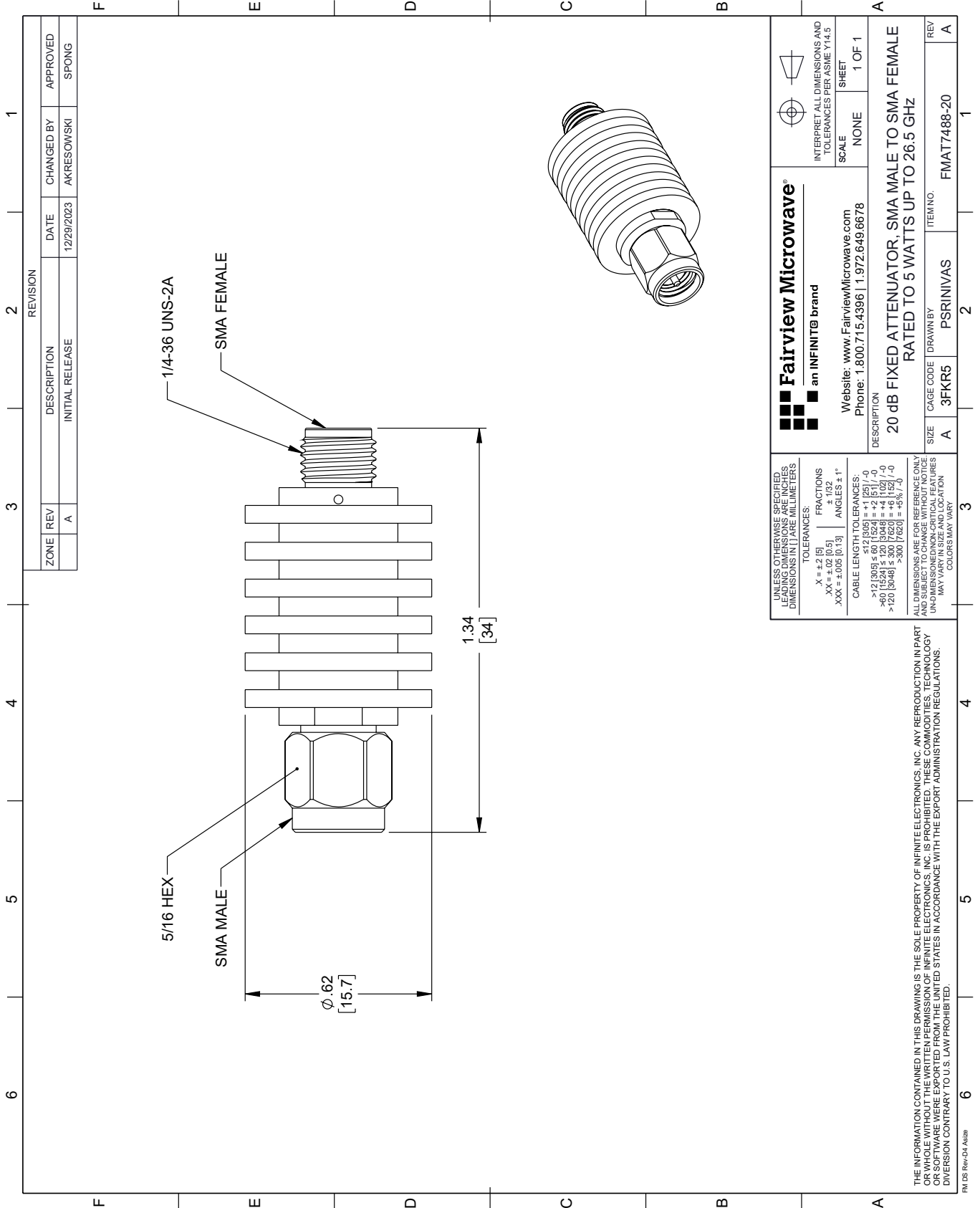
For additional information on this product, please click the following link: [20 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) up to 26.5 GHz Rated to 5 Watts, Black Anodized Aluminum Body, 1.35:1 VSWR FMAT7488-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-sma-male-sma-female-5-watts-fmat7488-20-p.aspx>

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FMAT7488-20 CAD Drawing

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

Fairview Microwave
 an INFINIT® brand

Website: www.FairviewMicrowave.com
 Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
 SHEET: 1 OF 1

DESCRIPTION: 20 dB FIXED ATTENUATOR, SMA MALE TO SMA FEMALE
 RATED TO 5 WATTS UP TO 26.5 GHz

SIZE: A
 CAGE CODE: 3FKR5
 DRAWN BY: PSRINIVAS
 ITEM NO.: FMAT7488-20

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt26