

3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) up to 26.5 GHz Rated to 10 Watts, Black Anodized Aluminum Body, 1.35:1 VSWR



FMAT7489-3

Features

- DC to 26.5 GHz Range
- Attenuation 3 ±1 dB
- 10 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 FMAT7489-3 is a 3 dB Fixed Attenuators that operates from DC to 26.5 GHz and is rated to 10 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		3		dB
VSWR			1.35:1	
Input Power, CW			10	Watts
Derated linearly to 1W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse, 2% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5					GHz
Attenuation Accuracy, Typ	1					dB

Mechanical Specifications

Size

- Length 1.88976 in [48 mm]
- Width/Diameter 0.649605 in [16.5 mm]
- Height 0.649605 in [16.5 mm]
- Weight 0.175 lbs [79.38 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

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

Plotted and Other Data

Notes:

Typical Performance Data

3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) up to 26.5 GHz Rated to 10 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.

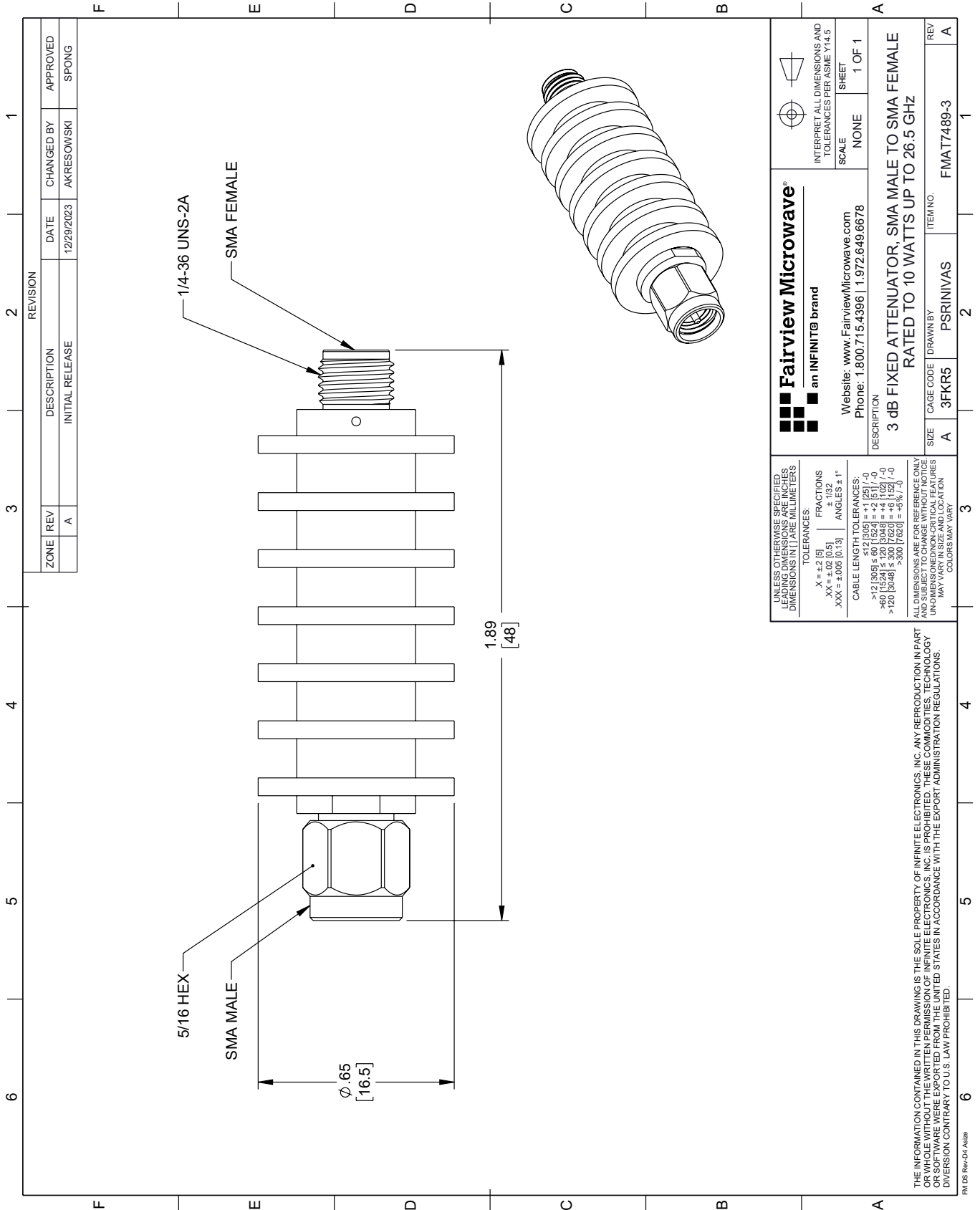
For additional information on this product, please click the following link: [3 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) up to 26.5 GHz Rated to 10 Watts, Black Anodized Aluminum Body, 1.35:1 VSWR FMAT7489-3](#)

URL: <https://www.fairviewmicrowave.com/3db-fixed-attenuator-sma-male-sma-female-10-watts-fmat7489-3-p.aspx>

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FMAT7489-3 CAD Drawing

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Fairview Microwave
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: 3 dB FIXED ATTENUATOR, SMA MALE TO SMA FEMALE RATED TO 10 WATTS UP TO 26.5 GHz

SIZE: A CAGE CODE: 3FKR5 DRAWN BY: PSRINIVAS ITEM NO: FMAT7489-3 REV: A

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

TOLERANCES:
.X = ±.2 [5] FRACTIONS ±.132
.XX = ±.02 [0.5] ANGLES ± 1°
.XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
>12 [305] ≤ 60 [1524] = ±.1 [25] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt2