

20 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 10 Watts, Black Aluminum Heatsink Body, 1.4 VSWR



## FMAT4009-20

### Features

- DC to 40 GHz Frequency Range
- Attenuation accuracy +/-1.0dB typical
- Max Power 10 Watts (CW)
- VSWR < 1.4:1

### 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 FMAT4009-20 is a 20 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 10 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		1		dB
VSWR			1.4:1	
Input Power, CW			10	Watts
10W average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C				
Input Power, Peak			200	Watts
5µs pulse, 1% duty cycle				

### Mechanical Specifications

#### Size

Length	0 in [0 mm]
Width/Diameter	0 in [0 mm]
Height	0 in [0 mm]
Weight	0.50574 lbs [229.4 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

#### Configuration

Design	Fixed, Unidirectional
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## FMAT4009-20

### Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Body Material and Plating	Passivated Stainless Steel	Passivated 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 10 Watts, Black Aluminum Heatsink 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 10 Watts, Black Aluminum Heatsink Body, 1.4 VSWR FMAT4009-20](#)

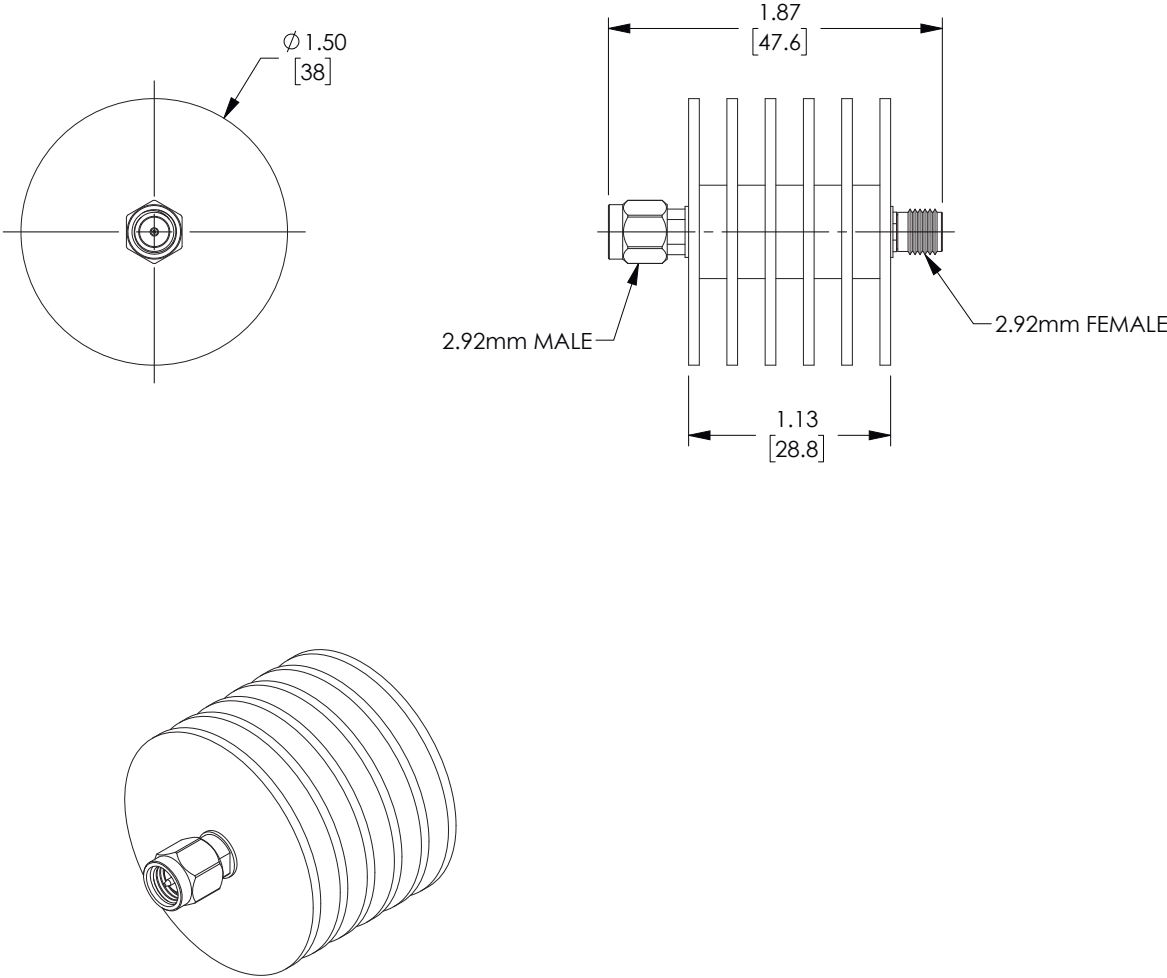
URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-2.92mm-male-2.92mm-female-10-watts-fmat4009-20-p.aspx>

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FMAT4009-20 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/12/2021	SPONG



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TITLE

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DMAY	FMAT4009-20	A

T-Rev.D