

6 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



FMAT4009-06

Features

- DC to 40 GHz Frequency Range
- Attenuation accuracy +/-1.5dB 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 FMAT4009-06 is a 6 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		6		dB
Attenuation Accuracy		1.5		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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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

6 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: [6 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 FMAT4009-06](#)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-2.92mm-male-2.92mm-female-10-watts-fmat4009-06-p.aspx>

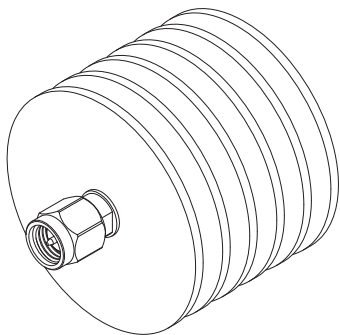
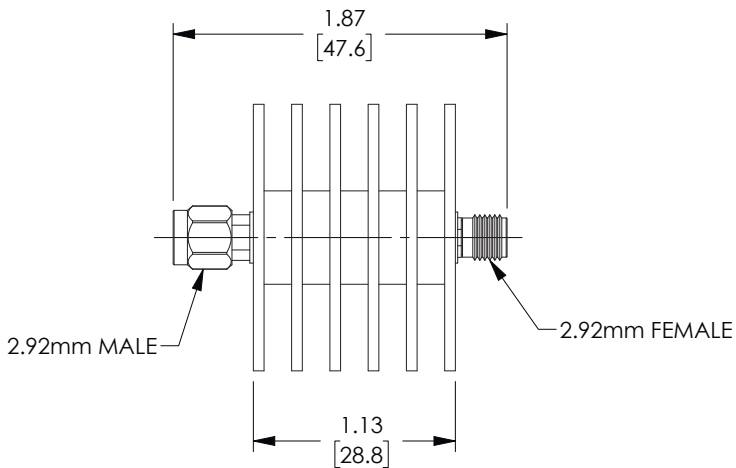
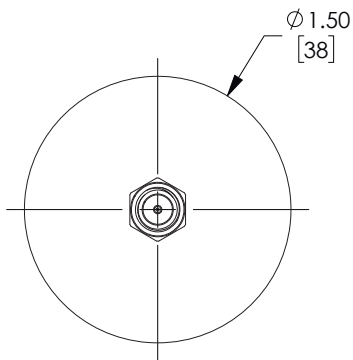
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FMAT4009-06 CAD Drawing

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Rated to 10 Watts, Black Aluminum Heatsink Body, 1.4 VSWR

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



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Fairview Microwave

an INFINIT^e brand

TITLE

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

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

$$\begin{aligned} L &\leq 12 \text{ [305]} = +1 \text{ [25]} / -0 \\ 12 \text{ [305]} &< L \leq 60 \text{ [1524]} = +2 \text{ [51]} / -0 \\ 60 \text{ [1524]} &< L \leq 120 \text{ [3048]} = +4 \text{ [102]} / -0 \\ 120 \text{ [3048]} &< L \leq 300 \text{ [7620]} = +6 \text{ [152]} / -0 \\ 300 \text{ [7620]} &< L = +5\%L / -0 \end{aligned}$$

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE	N/A
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SIZE
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CAGE CODE	3FKP
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FMAT4009-06

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