

## 6 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 0.5 Watts, Passivated Stainless Steel Body, 1.35 VSWR

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 FMAT7429-6 is a 6 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 0.5 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also RoHS compliant.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
Attenuation Accuracy			1	dB
VSWR			1.35:1	
Input Power, CW			0.5	Watts
Input Power, Peak 5µs pulse width, 1% duty cycle			200	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.14 in [28.96 mm]
Width/Diameter	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.375 lbs [170.1 g]
Body Material and Plating	Passivated Stainless Steel

### Configuration

Design	Fixed, Bidirectional
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### Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material & Plating	Stainless Steel	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel



### Features:

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 6 dB Typical
- Max Power 0.5 Watts (CW)
- VSWR < 1.35:1

### Applications:

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -55 to +125 deg C

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

## Plotted and Other Data

Notes:

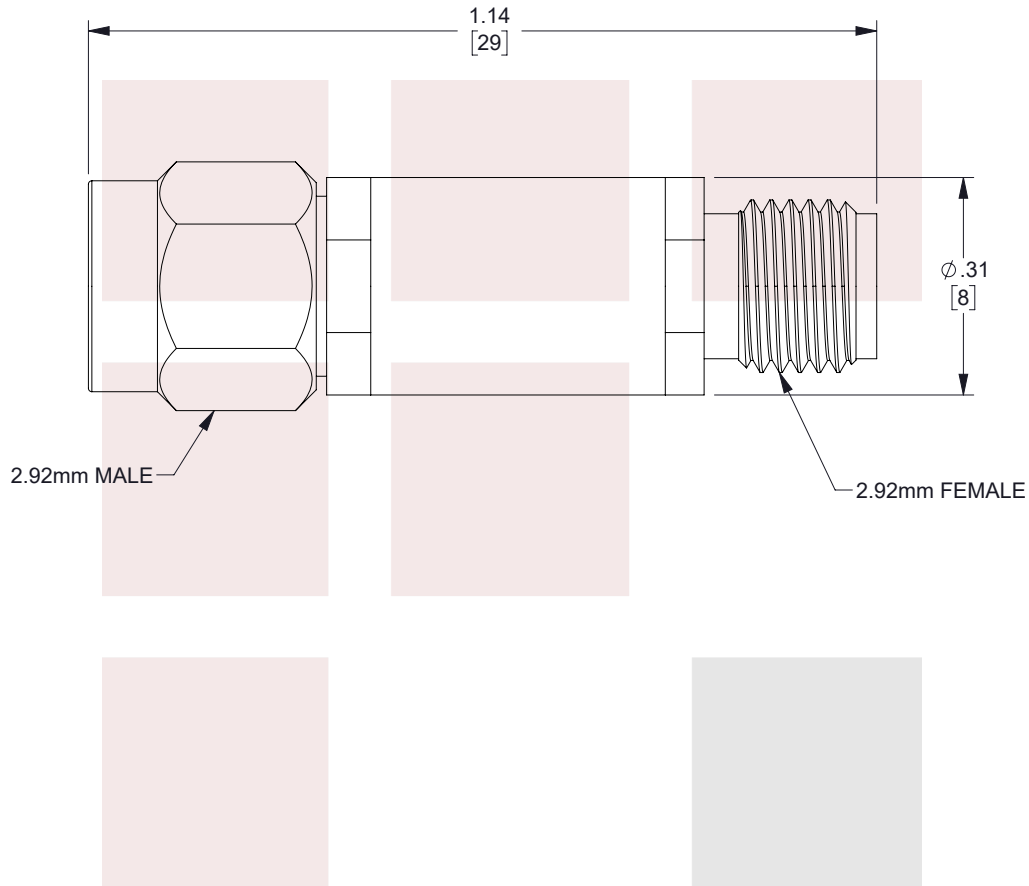
6 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 0.5 Watts, Passivated Stainless Steel Body, 1.35 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified 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 0.5 Watts, Passivated Stainless Steel Body, 1.35 VSWR FMAT7429-6](#)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-2.92mm-male-2.92mm-female-0.5-watts-fmat7429-6-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/7/22	SPONG



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TITLE

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

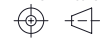
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32  
.XX = ±.02 [.51]  
.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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. FMAT7429-6	REV A
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T-Rev.D