

3 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 FMAT7429-3 is a 3 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 | | 3 | | 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

| | |
|---------------------------|----------------------------|
| Size | |
| Length | 1.14 in [28.96 mm] |
| Width/Diameter | 0.315 in [8 mm] |
| Height | 0.315 in [8 mm] |
| Weight | 0.75 lbs [340.19 g] |
| Body Material and Plating | Passivated Stainless Steel |

Configuration

| | |
|--------|----------------------|
| Design | Fixed, Bidirectional |
|--------|----------------------|

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 3 dB Typical
- Max Power 0.5 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

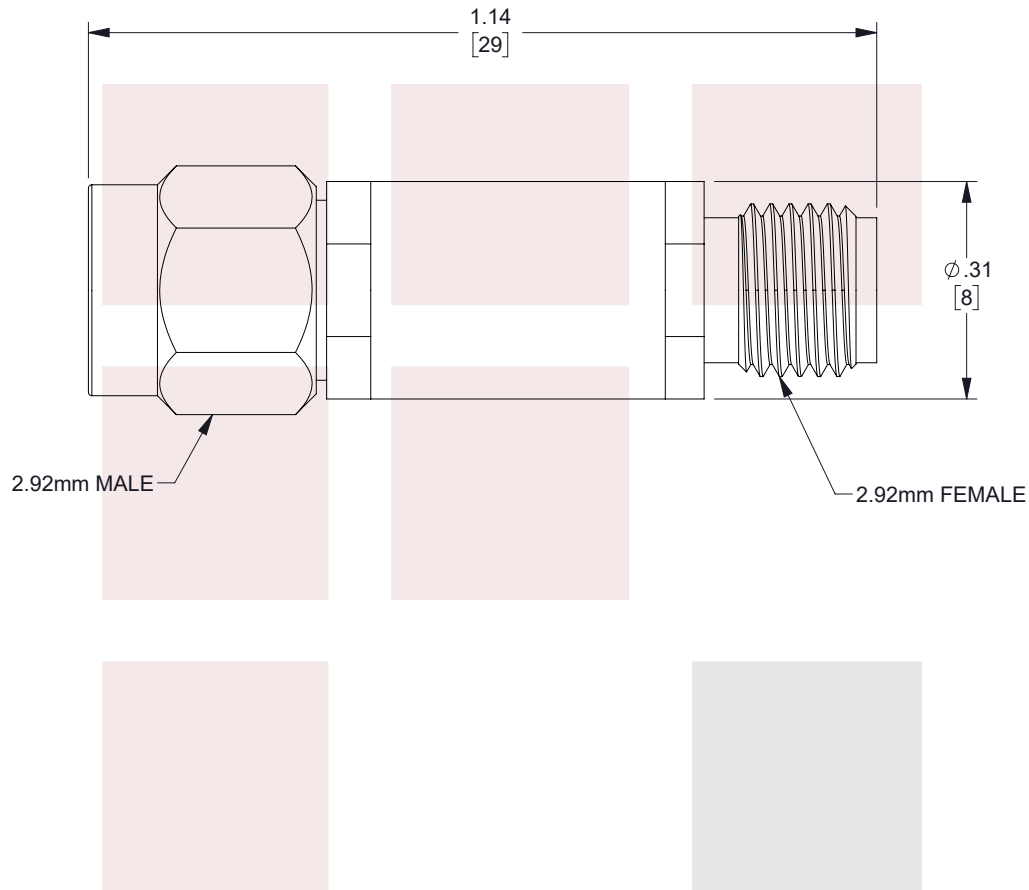
3 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 0.5 Watts, Passivated Stainless Steel Body, 1.35 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified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

For additional information on this product, please click the following link: [3 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 FMAT7429-3](#)

URL: <https://www.fairviewmicrowave.com/3db-fixed-attenuator-2.92mm-male-2.92mm-female-0.5-watts-fmat7429-3-p.aspx>

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| 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: CABLE LENGTH (L) TOLERANCES:

| | | |
|--------------------|-------------|---|
| .X = ±.2 [5.08] | FRACTIONS | L ≤ 12 [305] = +1 [25] / -0 |
| .XX = ±.02 [.51] | ± 1/32 | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 |
| .XXX = ±.005 [.13] | ANGLES ± 1° | 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. FMAT7429-3 | REV A |
|-----------|--------------------|------------------|------------------------|----------|

T-Rev.D