

4 dB Fixed Attenuator 2.92mm Male (Plug) To 2.92mm Female (Jack) Up To 40 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.6 VSWR



SA4018-04

Features

- DC to 40 GHz Frequency Range
- Attenuation 4±0.8 dB
- Max Power 2 Watts (CW)
- Typical 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 SA4018-04 is a 4 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 2 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 4 | | dB |
| Attenuation Accuracy | | 0.8 | | dB |
| VSWR | | 1.4:1 | 1.6:1 | |
| Input Power, CW | | | 2 | Watts |
| derated linearly to 0% at +125°C | | | | |
| Input Power, Peak | | | 100 | Watts |
| 1µs pulse, 1% duty cycle | | | | |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------|
| Length | 1.04 in [26.42 mm] |
| Width/Diameter | 0.312 in [7.92 mm] |
| Height | 0 in [0 mm] |
| Weight | 0.015 lbs [6.8 g] |
| Body Material and Plating | Passivated Stainless Steel |

Configuration

| | |
|---------------|----------------------|
| Design | Fixed |
| Package Style | Connectorized Module |

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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|----------------------------|
| Type | 2.92mm Male | 2.92mm Female |
| Connector Specification | MIL-C-39012 | MIL-C-39012 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 1.3µm | 1.3µm |
| Outer Conductor Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Environmental Specifications

| | |
|-----------------|-------------------|
| Temperature | |
| Operating Range | -55 to +125 deg C |
| Storage Range | -55 to +125 deg C |

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

Plotted and Other Data

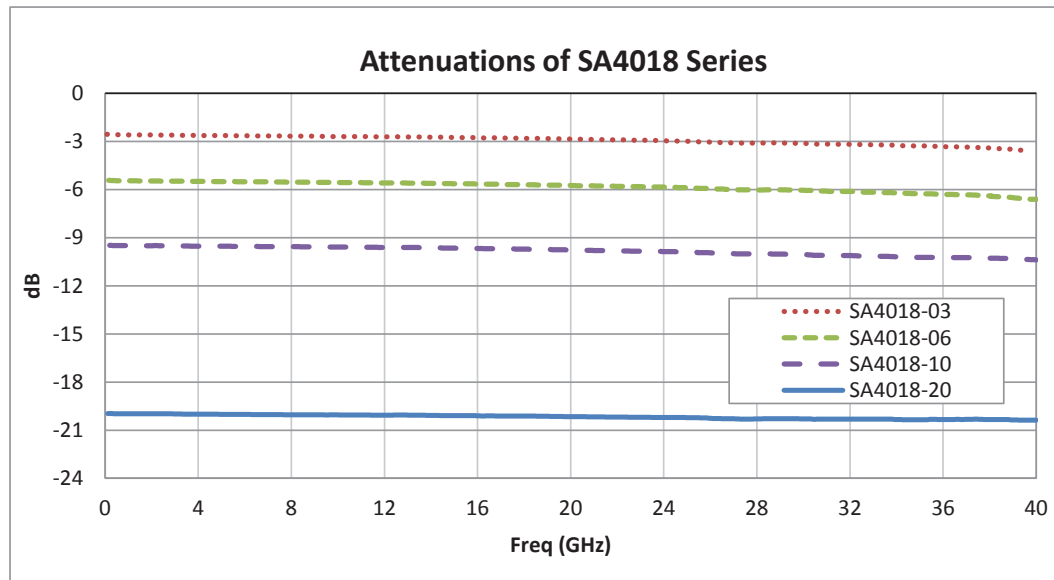
Notes:

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Typical Performance Data



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4 dB Fixed Attenuator 2.92mm Male (Plug) To 2.92mm Female (Jack) Up To 40 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.6 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.

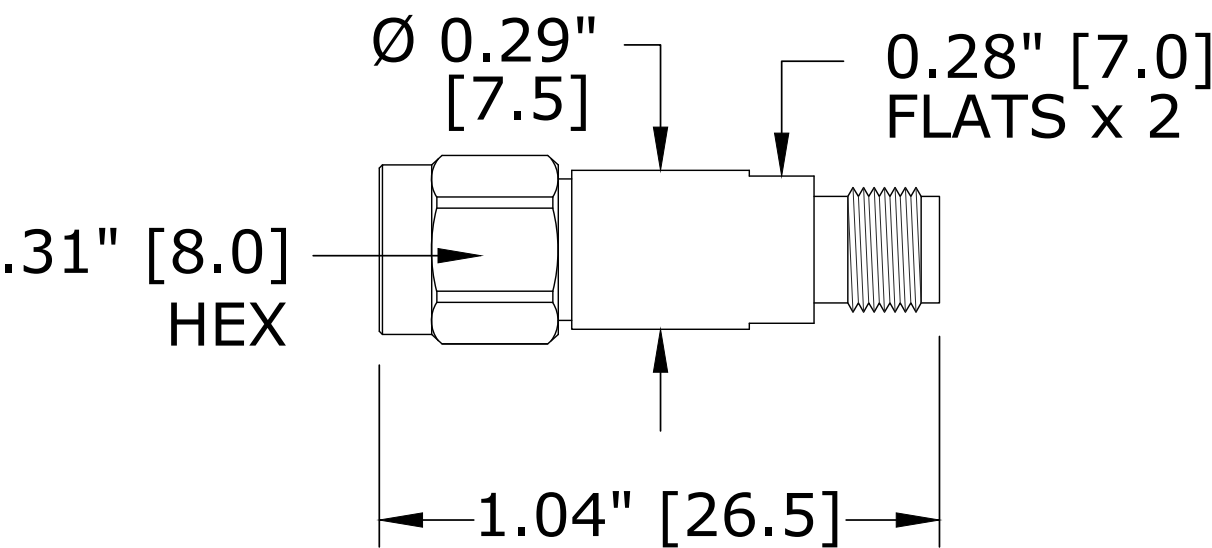
For additional information on this product, please click the following link: [4 dB Fixed Attenuator 2.92mm Male \(Plug\) To 2.92mm Female \(Jack\) Up To 40 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.6 VSWR SA4018-04](https://www.fairviewmicrowave.com/4db-fixed-attenuator-2.92mm-male-2.92mm-female-2-watts-sa4018-04-p.aspx)

URL: <https://www.fairviewmicrowave.com/4db-fixed-attenuator-2.92mm-male-2.92mm-female-2-watts-sa4018-04-p.aspx>

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SA4018-04 CAD Drawing

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|--|---------------------|---|--------------------|-----------|------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE | DWG NO SA4018-04 | | CAGE CODE 3FKR5 | | |
| | CAD FILE 011415 | SHEET | SCALE N/A | SIZE A | 5568 |