



### SA4016-02

#### **Features**

- · DC to 40 GHz Frequency Range
- · Attenuation 2±1 dB

#### **Applications**

- Instrumentation
- · Precision measurements

- Max Power 2 Watts (CW)
- VSWR < 1.4:1</li>
- · 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 SA4016-02 is a 2 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		2		dB
VSWR			1.4:1	
Input Power, CW			2	Watts
derated linearly to 0.2W at +125°C				
Input Power, Peak			50	Watts
5 μs pulse, .05% duty cycle				

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 26.5	26.5 to 40			GHz
VSWR, Max	1.3:1	1.4:1	1.4:1			
Attenuation Accuracy, Typ	0.5	0.5	0.8			dB

#### **Mechanical Specifications**

Size	
Length	0.87 in [22.1 mm]
Width/Diameter	0.312 in [7.92 mm]
Height	0 in [0 mm]
Weight	0.0156 lbs [7.08 g]





### SA4016-02

Body Material and Plating Passivated Stainless Steel

Configuration

Design Fixed

Package Style Connectorized Module

#### **Connectors**

Description	Connector 1	Connector 2
Туре	2.92mm Male	2.92mm Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-PRF-39012	MIL-PRF-39012
Hex Size	5/16 inch	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:

The connectors use high temperature plastic bead dielectric.

### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

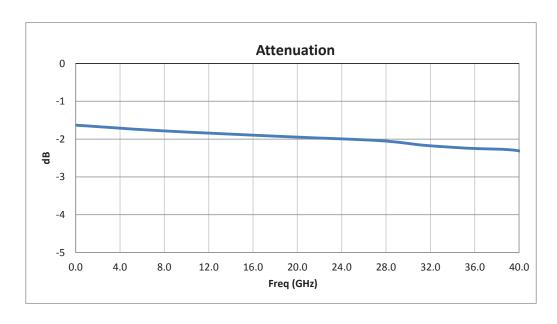




## SA4016-02

### **Typical Performance Data**











### SA4016-02

2 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 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: 2 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR SA4016-02

URL: https://www.fairviewmicrowave.com/2db-fixed-attenuator-2.92mm-male-2.92mm-female-2-watts-sa4016-02-p.

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# SA4016-02 CAD Drawing

2 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Up to 40 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR

