

# 3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.35 VSWR



# **SA18E-03**

#### **Features**

- DC to 18 GHz Frequency Range
- Attenuation 3±0.75 dB

#### **Applications**

- Instrumentation
- · Precision measurements

- Max Power 2 Watts (CW)
- VSWR < 1.35:1</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 SA18E-03 is a 3 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy		0.75		dB
VSWR			1.35:1	
Input Power, CW			2	Watts
derated linearly from 2W @ 25°C to 0	.2W @ 125°C			
Input Power, Peak			500	Watts
5µs pulse, 0.1% duty cycle				

# **Mechanical Specifications**

Size Length

Weight

Design

Width/Diameter Height

Body Material and Plating

Body Material and Fia

Configuration

Package Style

Fixed

Connectorized Module

Passivated Stainless Steel

0.86 in [21.84 mm]

0.312 in [7.92 mm]

0 in [0 mm] 0.0136 lbs [6.17 g]



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# **SA18E-03**

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Female		
Connector Specification	MIL-STD-348	MIL-STD-348		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		

Mechanical Specification Notes:

Connector interface in accordance with MIL-STD-348 and MIL-PRF-39012.//Materials and finishes comply with MIL-DTL-3933.

## **Environmental Specifications**

**Temperature** 

Operating Range

-65 to +125 deg C

**Environmental Specification Notes:** 

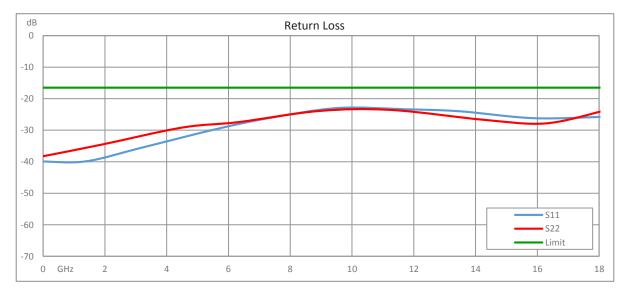
Designed to meet environmental requirements of MIL-DTL-3933.

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**



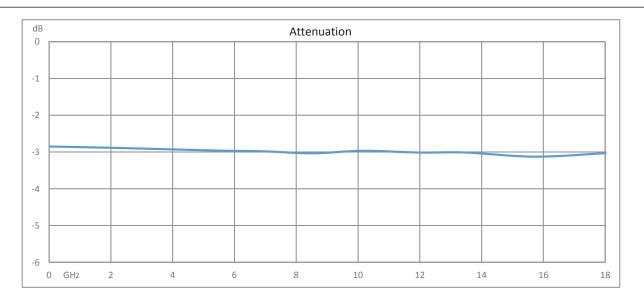




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# **SA18E-03**



3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 2 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.

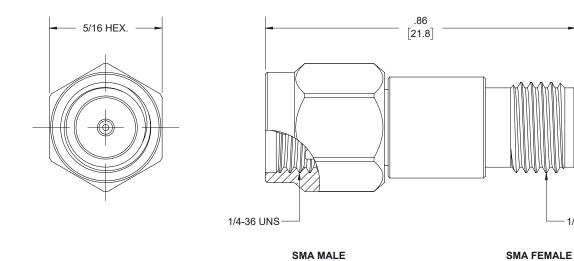
For additional information on this product, please click the following link: 3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.35 VSWR SA18E-03

URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-sma-male-sma-female-2-watts-sa18e-03-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

# **SA18E-03** CAD Drawing

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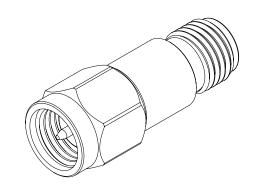
LABEL



STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



1/4-36 UNS

Fairview Microwave  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 SA18E-03			CAGE CODE 3FKR5			
	CAD FILE 12/18/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	