

# 7 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body

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 selections and ships them same day. The SA18E-07 is a 7 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 and is also REACH and RoHS compliant.

## **Electrical Specifications**

Min	Тур	Мах	Units
DC		18	GHz
	50		Ohms
	7		dB
	±0.75		dB
		1.35:1	
2W at +125°C		2	Watts
cycle		500	Watts
			-
		DC 50 7 ±0.75	DC 18 50 7 ±0.75 20W at +125°C 500



**SA18E-07** 

**DATA SHEET** 

## Features:

- DC to 18 GHz Frequency Range
- Attenuation 7±0.75 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

# **Applications:**

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

## **Mechanical Specifications**

Size Length Width/Diameter Weight Body Material and Plating

### Configuration

Design Package Style 0.86 in [21.84 mm] 0.312 in [7.92 mm] 0.01 lbs [4.54 g] Passivated Stainless Steel

Fixed Connectorized Module

> Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Connector Spec.	MIL-STD-348	MIL-STD-348
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & 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 (visit www.FairviewMicrowave.com for current document) RoHS Compliant Yes

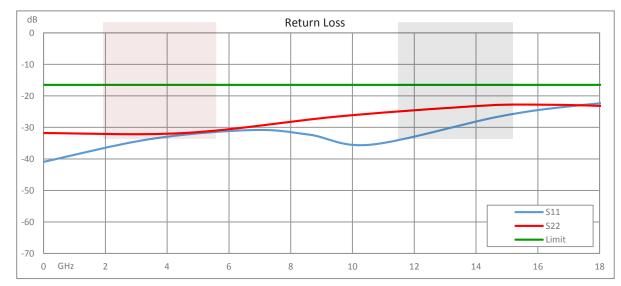
RoHS Compliant REACH Compliant

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### **Plotted and Other Data**

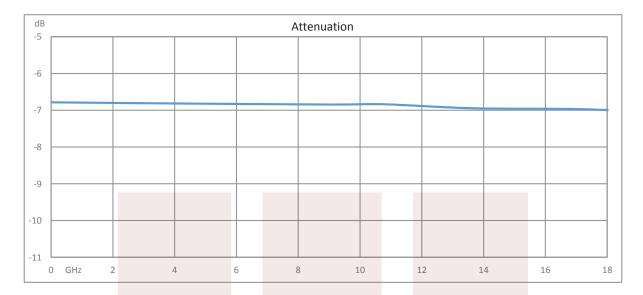
Notes:

## Typical Performance Data









7 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body 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 Allen, Texas. Fairview Microwave is RF on-demand.

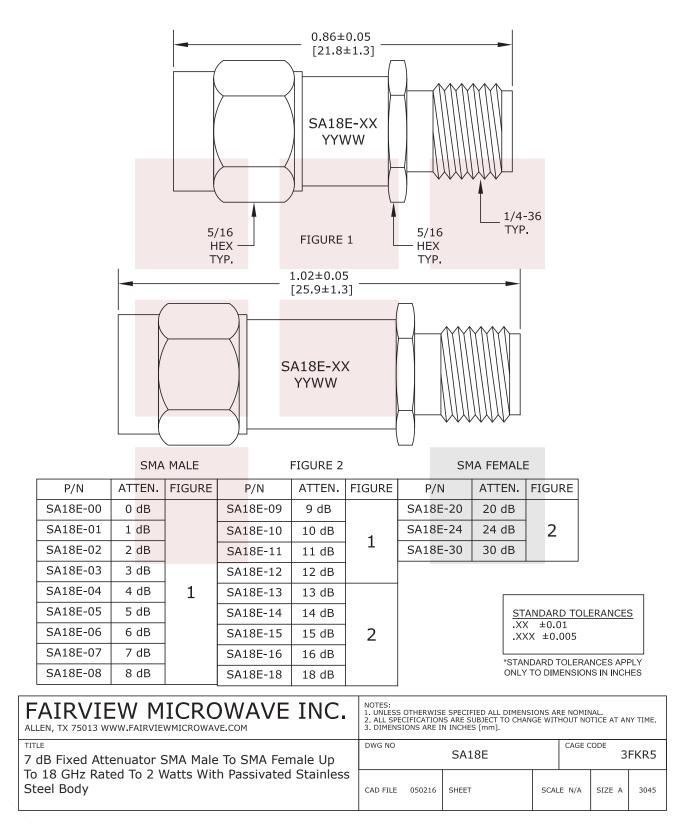
For additional information on this product, please click the following link: 7 dB Fixed Attenuator SMA Male To SMA Female Up To 18 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA18E-07

URL: http://www.fairviewmicrowave.com/7db-fixed-attenuator-sma-male-sma-female-2-watts-sa18e-07-p.aspx

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1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689