

SA6S10W-10 DATA SHEET

10 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink 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 varieties and ships them same day. The SA6S10W-10 is a 10 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 10 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		±0.5		dB
VSWR			1.2:1	
Input Power, CW rated at +25°C			10	Watts
rated at +25°C				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.2:1				

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size
Length 1.86 in [47.24 mm]
Width/Diameter 0.62 in [15.75 mm]
Weight 0.05 lbs [22.68 g]
Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 6 GHz Frequency Range
- Attenuation 10±0.5 dB
- Max Power 10 Watts (CW)
- VSWR < 1.2:1

Applications:

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

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Connectors

Connector 1	Connector 2		
SMA Male	SMA Female		
Beryllium Copper, Gold	Beryllium Copper, Gold		
MIL-G-45204	MIL-G-45204		
7 in-lbs [0.79 Nm]			
Passivated Stainless Steel	Passivated Stainless Steel		
	SMA Male Beryllium Copper, Gold MIL-G-45204 7 in-lbs [0.79 Nm]		

Environmental Specifications

Temperature

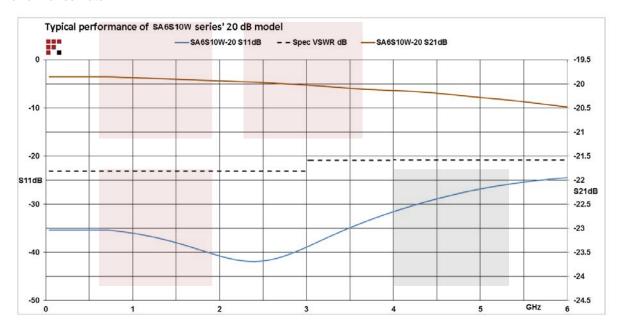
Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data







10 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink 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: 10 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink Body SA6S10W-10

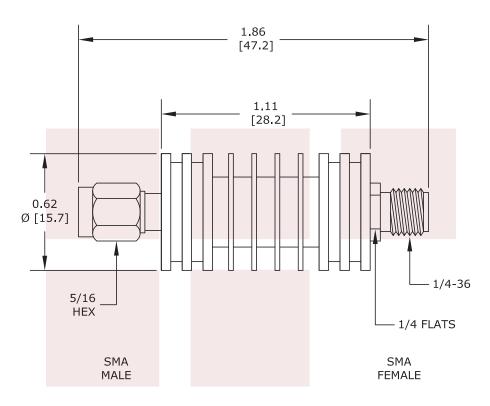
The information contained in this document is accurate to the best of our knowledge and representative of the part

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described h	herein. It may be necessar	y to make	modifications to the	e part and/or	the documentation of the pa	rt, in order
to impleme	ent improvements. Fairview	Microwave	reserves the right	to make such	changes as required. Unles	s otherwise
					presentation or warranty re	
				and Fairview M	licrowave does not assume	any liability
arising out	of the use of any part or do	ocumentatio	on.			









P/N	ATTEN.
SA6S10W-01	1 dB
SA6S10W-02	2 dB
SA6S10W-03	3 dB
SA6S10W-06	6 dB
SA6S10W-10	10 dB
SA6S10W-15	15 dB
SA6S10W-20	20 dB
SA6S10W-30	30 dB

STANDARD TOLERANCES DECIMAL

.XX ±0.01 .XXX ±0.003

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].				IY TIME.	
10 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink Body	DWG NO SA6S10W			CAGE CODE 3FKR5		
	CAD FILE 101315	SHEET	SCAL	E N/A	SIZE A	150