

SA6S5W-06 DATA SHEET

6 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 5 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 selections and ships them same day. The SA6S5W-06 is a 6 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 5 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		6		dB
Attenuation Accuracy		±0.5		dB
VSWR			1.3:1	
Input Power, CW derated linearly to 0.5	W at +125°C		5	Watts
Input Power, Peak 5ms pulse, 0.2% duty	cycle		500	Watts

Mechanical Specifications

Size

Length 1.22 in [30.99 mm]
Width/Diameter 0.77 in [19.56 mm]
Weight 0.024 lbs [10.89 q]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 6 GHz Frequency Range
- Attenuation 6±0.5 dB
- Max Power 5 Watts (CW)
- VSWR < 1.3:1

Applications:

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

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Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	MIL-PRF-39012	MIL-PRF-39012
Outer Conductor Material & Plating	Teflon	Teflon
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:

Materials comply with MIL-DTL-3933 and MIL-PRF-39012.

Finishes comply with MIL-DTL-3933.

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C Storage Range -65 to +150 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

REACH Compliant 12/17/2015

Plotted and Other Data

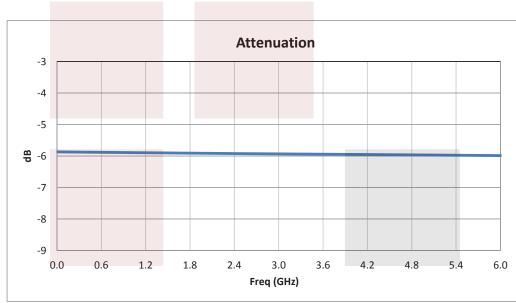
Notes:





Typical Performance Data









6 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 5 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: 6 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body SA6S5W-06

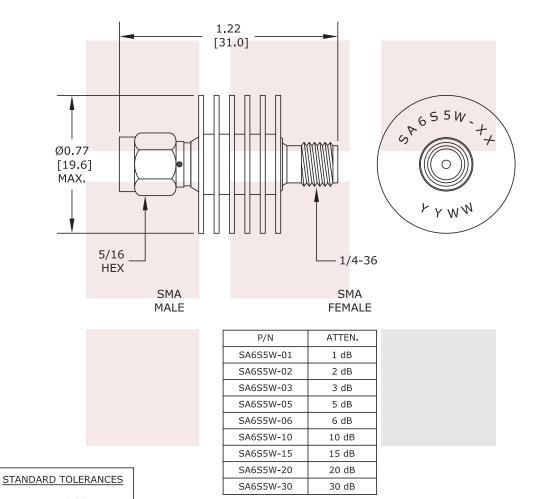
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/6db-fixed-attenuator-sma-male-sma-female-5-watts-sa6s5w-06-p.aspx

described	herein. It	may be	necessar	y to ma	ke modifica	tions to the	part an	nd/or th	ne documer	ntation of the	part, in order
to implem	ent improv	ements.	Fairview	/ Microw	ave reserve	s the right to	make	such o	hanges as	required. Unl	ess otherwise
stated, all	specificati	ons are	nominal.	Fairvie	w Microwav	e does not r	nake a	ny rep	resentation	or warranty	regarding the
suitability	of the part	t describ	ed hereir	for an	y particular	purpose, an	d Fairv	iew Mi	crowave do	es not assum	e any liability
arising out	t of the use	e of any	part or do	ocument	tation.						







±0.03 .X ±0.010 .XX .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	SPECIFIED ALL DIMENSIONS ARE NOMINAL. 5 ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. I INCHES [mm].					
6 dB Fixed Attenuator SMA Male To SMA Female Up	DWG NO SA6S5W			CAGE CODE 3FKR5		
To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body	CAD FILE 031816	SHEET	SCAL	E N/A	SIZE A	3045