

SA4S25-02 DATA SHEET

2 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 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 SA4S25-02 is a 2 dB Fixed Attenuator that operates from DC to 4 GHz and is rated to 25 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

Min	Тур	Max	Units
DC		4	GHz
	50		Ohms
	2		dB
	±0.5		dB
		1.2:1	
ed linearly to 2	.5W at +1	25 25°C	Watts
/ cycle		5	KWatts
	DC ed linearly to 2	DC 50 2 ±0.5	DC 4 50 2 ±0.5 1.2:1 25 ed linearly to 2.5W at +125°C

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

Mechanical Specifications

Size Length Width/Diameter Height Weight

Body Material and Plating

Configuration

Design Package Style Fixed, Bidirectional Connectorized Module

2.75 in [69.85 mm]

0.284 lbs [128.82 a]

Black Anodized Aluminum Heatsink

1.5 in [38.1 mm] 1.46 in [37.08 mm]



Features:

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 2±0.5 dB
- Max Power 25 Watts (CW)
- VSWR < 1.2:1

Applications:

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

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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Female		
Connector Spec.	MIL-STD-348A	MIL-STD-348A		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		

Environmental Specifications

Temperature

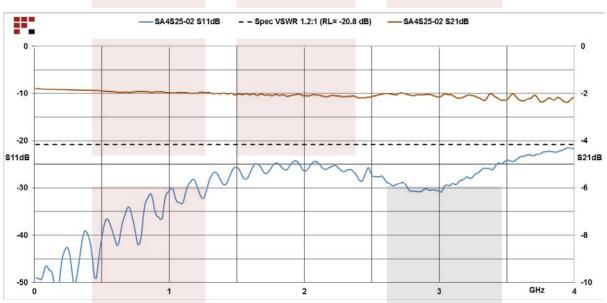
Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



2 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 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: 2 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 Watts With Black Aluminum Heatsink Body SA4S25-02

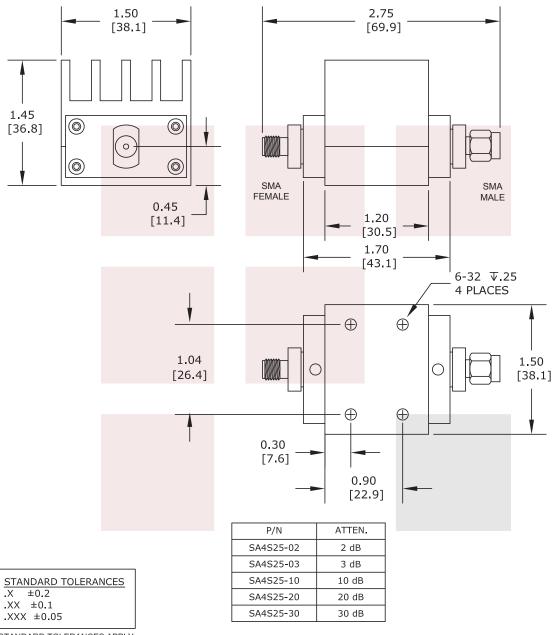
URL: https://www.fairviewmicrowave.com/2db-fixed-attenuator-sma-male-sma-female-25-watts-sa4s25-02-p.aspx

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*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].						
2 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 Watts With Black Aluminum Heatsink Body	DWG NO SA4S25			CAGE CODE 3FKR5			
	CAD FILE 101415	SHEET	SCALE	≣ N/A	SIZE A	150	