

3 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 selections and ships them same day. The SA4S252-03 is a 3 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

-				
Description	Min	Тур	Мах	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy		±0.5		dB
VSWR			1.25:1	
Passive Intermodulation			-100	dBc
Input Power, CW derated linearly to 2.5	W @ 125°C		25	Watts
Input Power, Peak 5µs pulse, 1.25% duty	/ cycle		1	KWatts

Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +43dBm each.

Mechanical Specifications

Size Length Width/Diameter Weight Body Material and Plating

Configuration

Design Package Style 3.25 in [82.55 mm] 1.5 in [38.1 mm] 0.198 lbs [89.81 g] Black Anodized Aluminum Heatsink

Fixed, Bidirectional Connectorized

SA4S252-03 DATA SHEET



Features:

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 3±0.5 dB
- Max Power 25 Watts (CW)
- VSWR < 1.25:1

Applications:

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

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





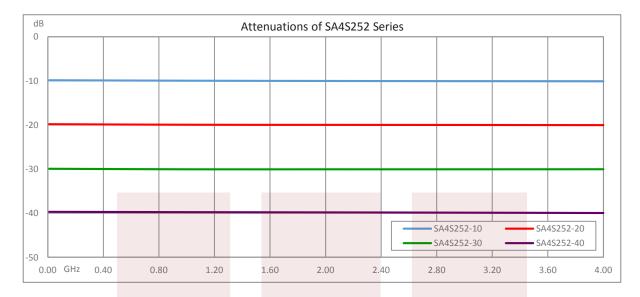
Connectors

Des	cription	Connector 1	Connecto	r 2		
Туре		SMA Male	SMA Fema	ale		
Connection N	Method	Standard	Standar	d		
Polarity		Standard	Standar	d		
Contact Mate	erial & Plating	Brass, Gold	Beryllium Coppe	er, Gold		
Contact Plati	ng Spec.	MIL-G-45204	MIL-G-452	04		
Outer Condu	uctor Material & Plating	Brass, Nickel	Brass, Nick	el		
Coupling Nut	t Material & Plating	Brass, Nickel				
Hex Size		5/16 in				
Body Materia	al & Plating	Brass, Nickel	Brass, Nick	el		
Environmei Tempera Operating			+125 deg C			
RoHS Con REACH Co Plotted and	npliant	visit www.Fairvier Yes 12/17/	wMicrowave.com for 2015	current d	locument)	
Notes:	rformance Data					
	dB 0		Return Loss			
	10					
	10					
-	20					
-	30					
-	40					
-	50					
	.50					511 522

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3 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.

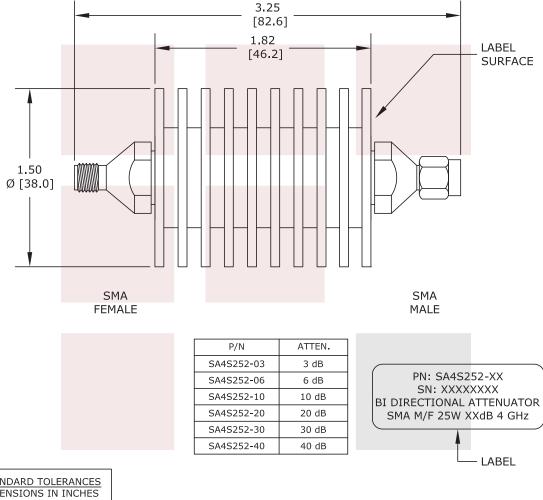
For additional information on this product, please click the following link: 3 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 Watts With Black Aluminum Heatsink Body SA4S252-03

URL: http://www.fairviewmicrowave.com/3db-fixed-attenuator-sma-male-sma-female-25-watts-sa4s252-03-p.aspx

The information contained in 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 implement 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 any liability arising out of the use of any part or documentation.







STANDARD TOLERANCES DIMENSIONS IN INCHES AND TOLERANCE ±0.08%

*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].					
3 dB Fixed Attenuator SMA Male To SMA Female Up To 4 GHz Rated To 25 Watts With Black Aluminum Heatsink Body	DWG NO SA4S252			CAGE CODE 3FKR5		
	CAD FILE 032316	SHEET	SCALE N/A		SIZE A	3045

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