

SA4023-30 DATA SHEET

30 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Directional Up To 40 GHz Rated To 20 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 SA4023-30 is a 30 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 20 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm 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		40	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
VSWR			1.6:1	
Input Power, CW rated at +25°C, derate	ed linearly to 0)W at +125	20 5°C	Watts

Input Power, Peak 200 Watts 5µs pulse, 1.25% duty cycle

Specifications by Frequency

to 18	18 to 40			GHz
3:1	1.6:1			
1.25	±3			dB
	3:1	 3:1 1.6:1	3:1 1.6:1	3:1 1.6:1

3.64 in [92.46 mm]

0.331 lbs [150.14 g]

Black Anodized Aluminum Heatsink

1.5 in [38.1 mm]

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

Mechanical Specifications

Size Length Width/Diameter Weight

Body Material and Plating

Material and Plating

Configuration

Design Fixed, Directional

Features:

- Directional
- DC to 40 GHz Frequency Range
- Attenuation 30±3 dB
- Max Power 20 Watts (CW)
- VSWR < 1.60:1

Applications:

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

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Package Style

Connectorized Module

Connectors

Connector 2		
ım Female		
n Copper, Gold		
nless Steel		
_		

Environmental Specifications

Temperature

Operating Range

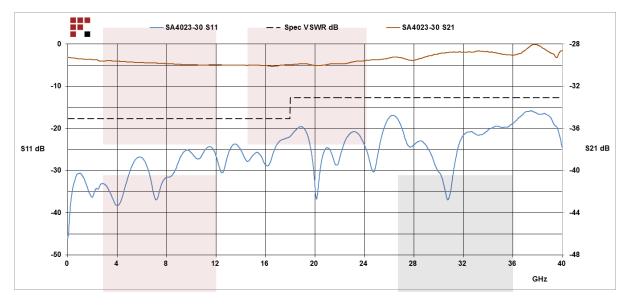
-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data







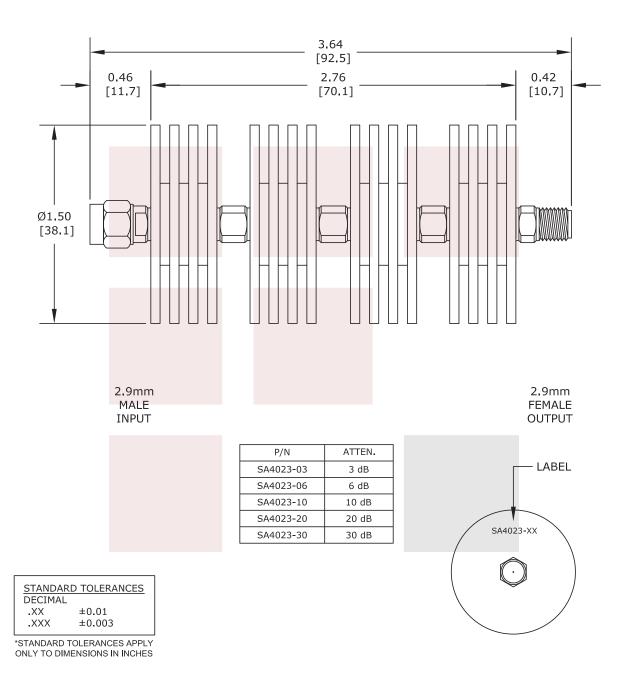
30 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Directional Up To 40 GHz Rated To 20 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 30 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Directional Up To 40 GHz Rated To 20 Watts With Black Aluminum Heatsink Body SA4023-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-2.92mm-male-2.92mm-female-20-watts-sa4023-30-p. aspx







	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].					
30 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Directional Up To 40 GHz Rated To 20 Watts With Black Aluminum Heatsink Body	DWG NO SA4023			CAGE CODE 3FKR5		
	CAD FILE 032116	SHEET	SCALE	≣ N/A	SIZE A	3045