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Find the *Fairview Microwave / S.M. Electronics SA6H-03* at our website: *Click HERE*

Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SA6H-03
DATA SHEET

3 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel 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 SA6H-03 is a 3 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Features:

- DC to 6 GHz Frequency Range
- Attenuation 3±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

Applications:

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy			±0.5	dB
VSWR			1.35:1	
Input Power, CW derated linearly to 0.2W at +125°C			2	Watts
Input Power, Peak 5µs pulse, 0.01% duty cycle			200	Watts

Mechanical Specifications

Size

Length	0.86 in [21.84 mm]
Width/Diameter	0.312 in [7.92 mm]
Weight	0.012 lbs [5.44 g]
Body Material and Plating	Passivated Stainless Steel

Configuration

Design	Fixed
Package Style	Connectorized Module

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Allen, TX 75013
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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs [0.9 Nm]	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

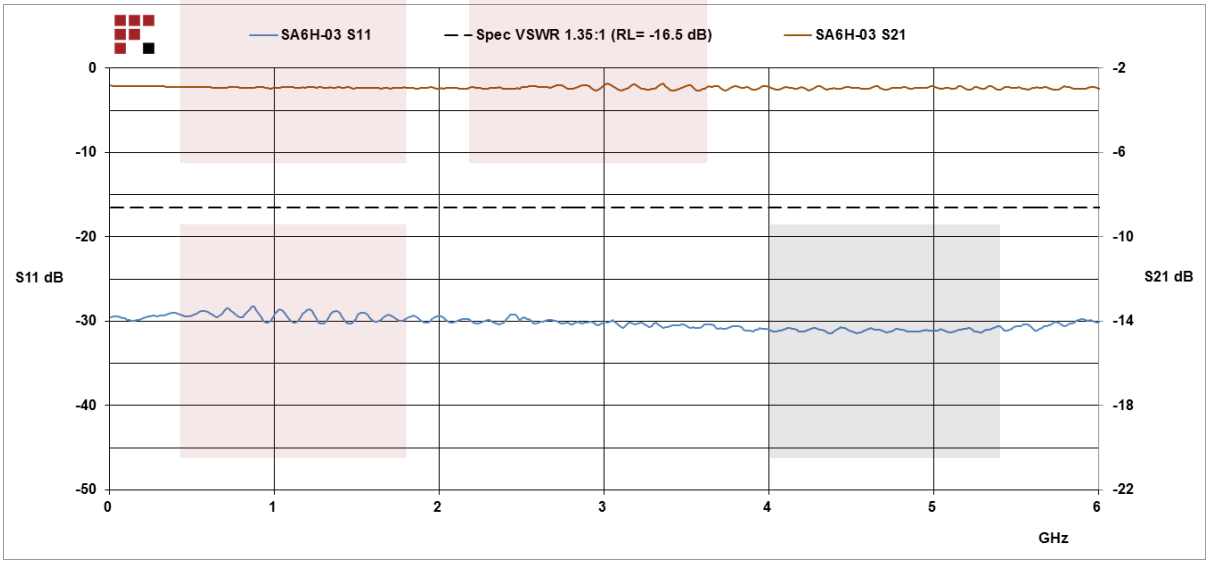
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



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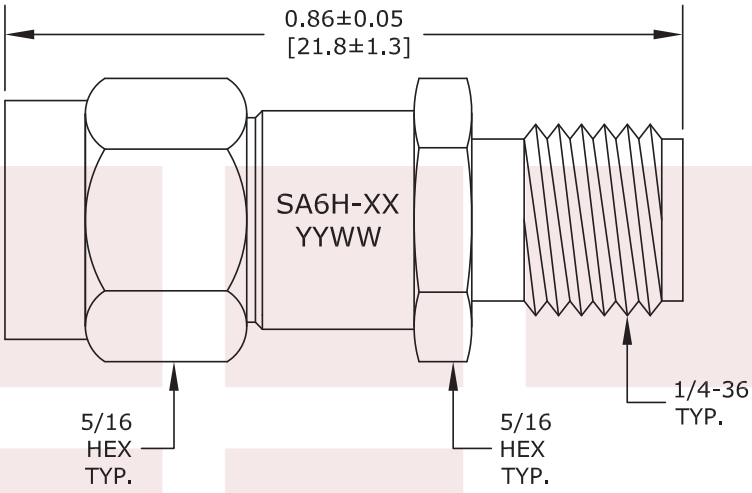
3 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. 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 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA6H-03

URL: http://www.fairviewmicrowave.com/3db-fixed-attenuator-sma-male-sma-female-2-watts-sa6h-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.

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SMA MALE

P/N	ATTEN.
SA6H-00	0 dB
SA6H-01	1 dB
SA6H-02	2 dB
SA6H-03	3 dB
SA6H-04	4 dB
SA6H-05	5 dB
SA6H-06	6 dB
SA6H-07	7 dB
SA6H-08	8 dB
SA6H-09	9 dB

SMA FEMALE

P/N	ATTEN.
SA6H-10	10 dB
SA6H-12	12 dB
SA6H-13	13 dB
SA6H-14	14 dB
SA6H-15	15 dB
SA6H-16	16 dB
SA6H-18	18 dB
SA6H-20	20 dB
SA6H-25	25 dB
SA6H-30	30 dB

STANDARD TOLERANCES

.X	±0.03
.XX	±0.010
.XXX	±0.005

*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].

TITLE
3 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body

DWG NO SA6H

CAGE CODE 3FKR5

CAD FILE 031716 | SHEET | SCALE N/A | SIZE A | 3045

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