Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SA3SMF300W-30
DATA SHEET

30 dB Fixed Attenuator SMA Male To SMA Female Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body

Features:

- Design: Fixed, Directional Attenuator
- Connector 1: SMA Male
- Connector 2: SMA Female
- Body Material and Plating: Black Aluminum Heatsink

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Attenuation Value		30		dB
Attenuation Accuracy		1.25		dB
Input Power			300	Watts
Peak Power			2.5	KWatts
VSWR			1.4:1	

* Values at 25°C, sea level

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 1.5	1.5 to 3				GHz
VSWR	1.2:1	1.4:1				
Attenuation Value	30	30				dB
Atten. Accuracy	± 1	± 1.25				dB

Mechanical Specifications

Temperature

Operating Range	-55 to +125 deg C
Width	6.2 in [157.48 mm]
Height	6.3 in [160.02 mm]

Connectors

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

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

RoHS Compliant	Yes

Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- Calculated Heatsink Thermal Rise: .7C / Watt

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30 dB Fixed Attenuator SMA Male To SMA Female Directional Up To 3 GHz Rated To 300 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.

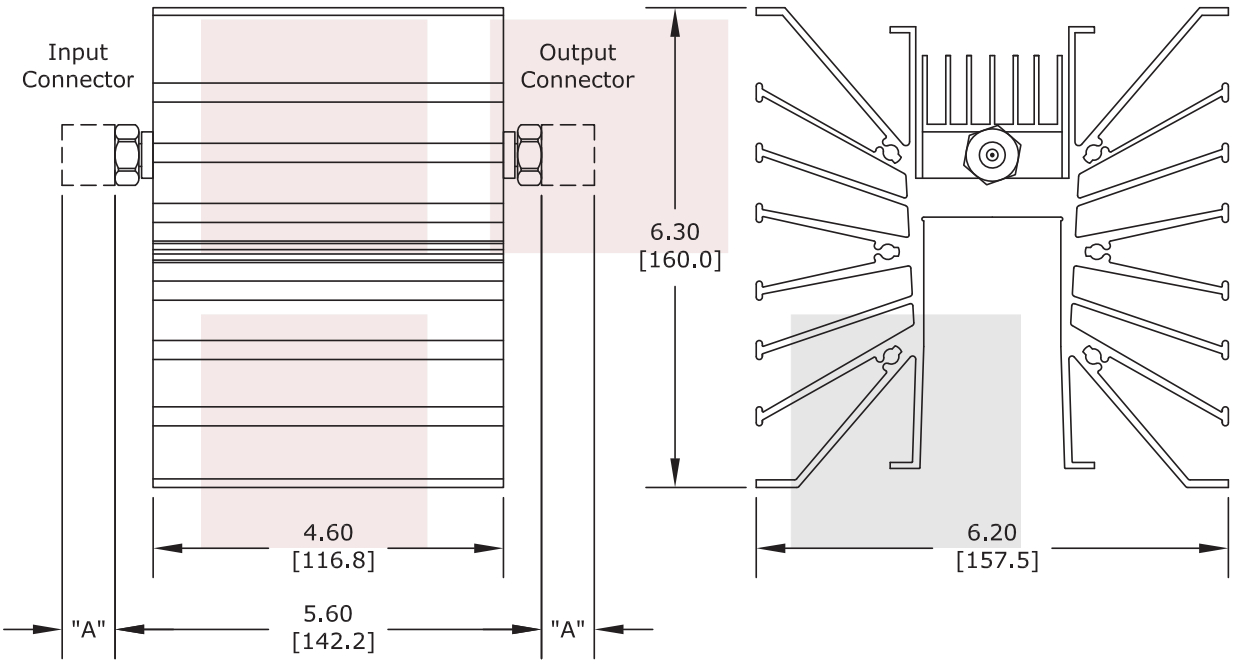
For additional information on this product, please click the following link: 30 dB Fixed Attenuator SMA Male To SMA Female Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body SA3SMF300W-30

URL: http://www.fairviewmicrowave.com/30db-fixed-attenuator-sma-male-sma-female-300-watts-sa3smf300w-30-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.

Table of Information	
Connector Type	Dim "A" (Ref.)
SMA Male	0.88
SMA Female	0.73
TNC Male	1.06
TNC Female	1.16
N Female	1.19
N Male	1.23
7/16 Male	1.38
7/16 Female	1.42

Part Number Configuration		
xx	Input Connector	Output Connector
SMM	SMA Male	SMA Male
SMF	SMA Male	SMA Female
SFF	SMA Female	SMA Female
SFM	SMA Female	SMA Male
NMM	N Male	N Male
NMF	N Male	N Female
NFF	N Female	N Female
NFM	N Female	N Male
TMM	TNC Male	TNC Male
TMF	TNC Male	TNC Female
TFF	TNC Female	TNC Female
TFM	TNC Female	TNC Male
DMM	7/16 Male	7/16 Male
DMF	7/16 Male	7/16 Female
DFF	7/16 Female	7/16 Female
DFM	7/16 Female	7/16 Male
- yy	Indicates Attenuation Level	



SIDE VIEW

FRONT VIEW

FAIRVIEW MICROWAVE INC.
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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
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DWG NO: SA3xxx300W-yy
CAGE CODE: 3FKR5

CAD FILE 090914	SHEET	SCALE N/A	SIZE A	2233

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