

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

**Electrical Specifications\***

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Attenuation Value		20		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	20	20				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 Female	SMA Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
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**Plotted and Other Data**

Notes:

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



**Features:**

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

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20 dB Fixed Attenuator SMA Female 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: [20 dB Fixed Attenuator SMA Female To SMA Female Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body SA3SFF300W-20](#)

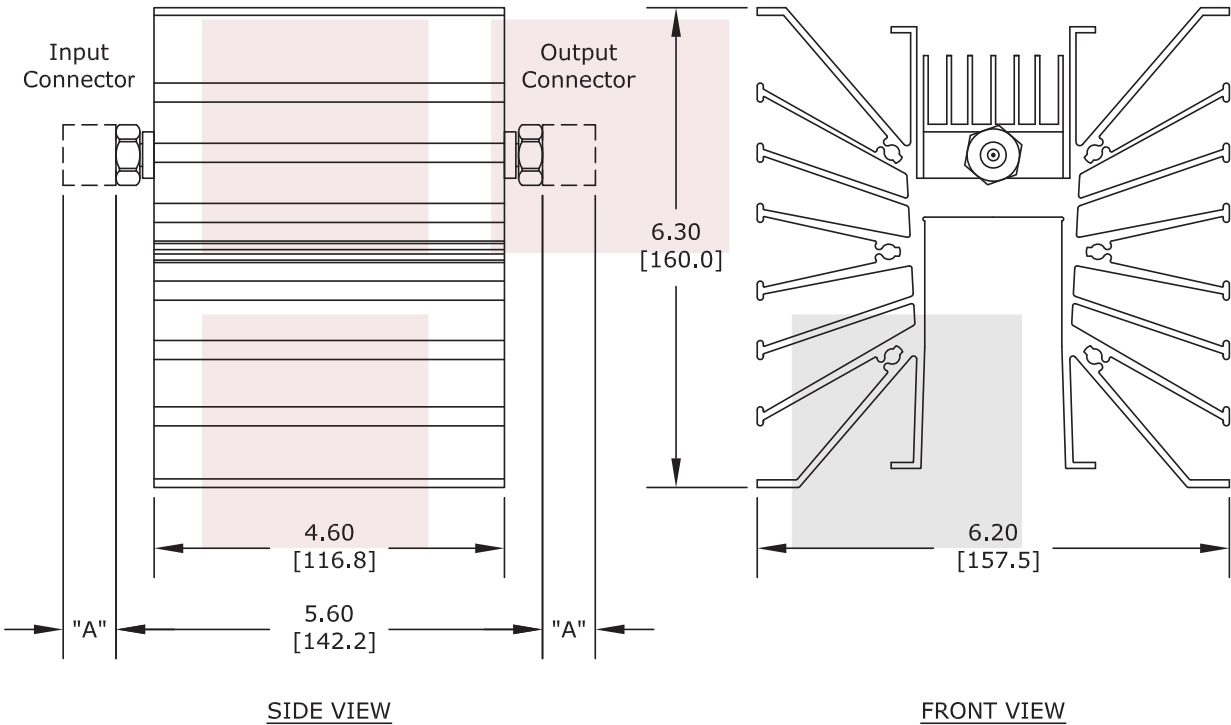
URL: <http://www.fairviewmicrowave.com/20db-fixed-attenuator-sma-female-sma-female-300-watts-sa3sff300w-20-p.aspx>

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	



<b>FAIRVIEW MICROWAVE INC.</b> 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 20 dB Fixed Attenuator SMA Female To SMA Female Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body		DWG NO SA3xxx300W-yy		CAGE CODE 3FKR5	
CAD FILE	090914	SHEET	SCALE	N/A	SIZE A 2233