

10 dB Fixed Attenuator N Female To N Male
Directional Up To 6 GHz Rated To 100 Watts With
Black Aluminum Heatsink Body

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Attenuation Value		10		dB
Input Power			100	Watts
VSWR			1.45:1	

* Values at 25°C, sea level

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 2	2 to 4	4 to 6			GHz
VSWR	1.2:1	1.35:1	1.45:1			
Atten. Accuracy	± 0.75	± 1	± 1.25			dB

Mechanical Specifications

Temperature

Operating Range -55 to +125 deg C

Size

Length 4.9 in [124.46 mm]

Width 3.8 in [96.52 mm]

Height 2.7 in [68.58 mm]

Weight 3 lbs [1.36 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Female	N Male
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material & Plating		Stainless Steel, Passivated
Body Material & Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Features:

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

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10 dB Fixed Attenuator N Female To N Male Directional Up To 6 GHz Rated To 100 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: [10 dB Fixed Attenuator N Female To N Male Directional Up To 6 GHz Rated To 100 Watts With Black Aluminum Heatsink Body SA6NFM100W-10](#)

URL: <http://www.fairviewmicrowave.com/10db-fixed-attenuator-n-female-n-male-100-watts-sa6nfm100w-10-p.aspx>

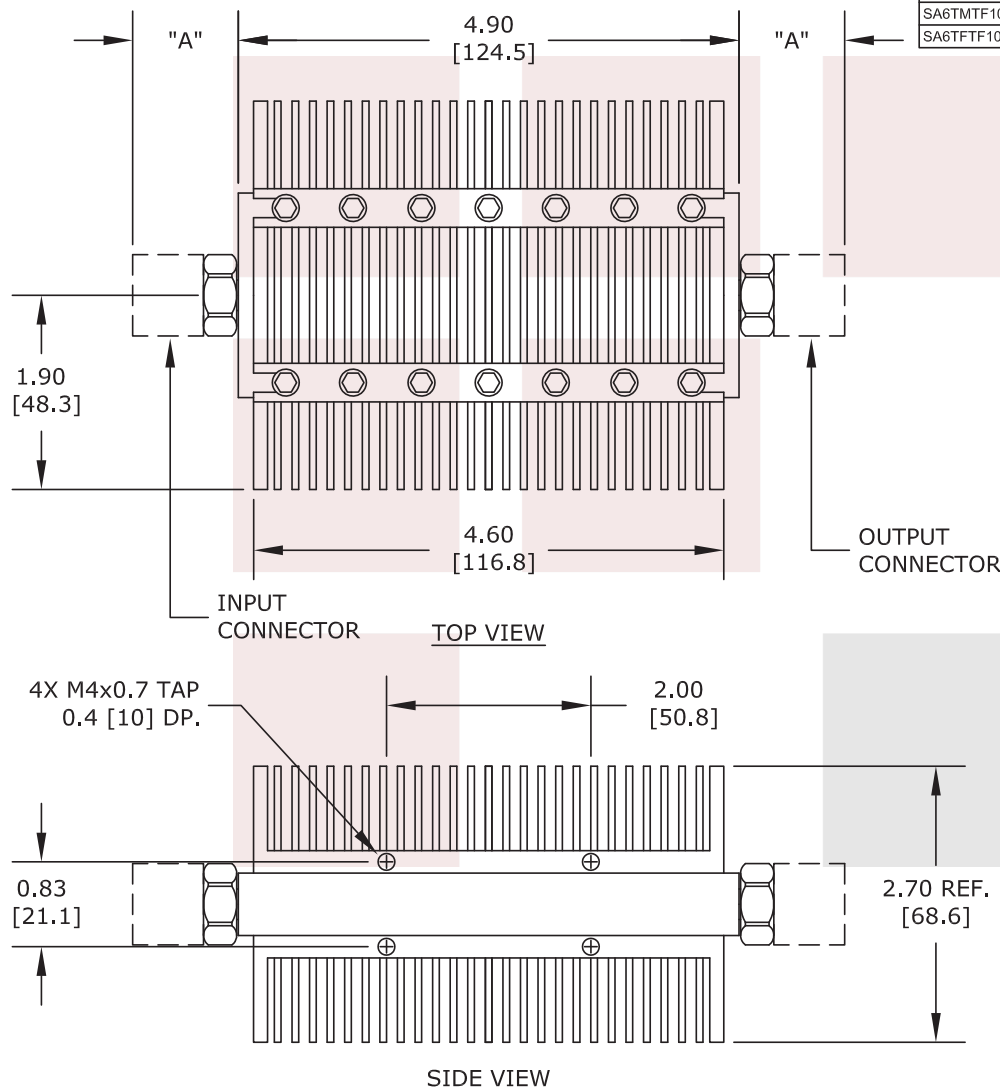
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Add to end of part number	
- yy =	Attenuation
- 03	3 dB
- 06	6 dB
- 10	10 dB
- 20	20 dB
- 30	30 dB
- 40	40 dB
- 50	50 dB
- 60	60 dB

Part Number Configuration		
Part Number	Input Connector	Output Connector
SA6DFDM100W	7/16 Female	7/16 Male
SA6DMDF100W	7/16 Male	7/16 Female
SA6DFDF100W	7/16 Female	7/16 Female
SA6NFM100W	N Female	N Male
SA6NMNF100W	N Male	N Female
SA6NFNF100W	N Female	N Female
SA6SFSM100W	SMA Female	SMA Male
SA6SMSF100W	SMA Male	SMA Female
SA6SFSF100W	SMA Female	SMA Female
SA6TFTM100W	TNC Female	TNC Male
SA6TMTF100W	TNC Male	TNC Female
SA6TFTF100W	TNC Female	TNC Female

Table of Information	
Connector Type	DIM "A" (REF.)
SMA Male	0.7800
SMA Female	0.6300
TNC Male	0.9600
TNC Female	1.0600
N Female	1.0900
N Male	1.1300
7/16 Male	1.2800
7/16 Female	1.3200



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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
10 dB Fixed Attenuator N Female To N Male Directional
Up To 6 GHz Rated To 100 Watts With Black Aluminum
Heatsink Body

DWG NO	SA6XXX100w-yy		CAGE CODE	3FKR5	
CAD FILE	062714	SHEET	SCALE	N/A	SIZE A
					2233