

**40 dB Fixed Attenuator SMA Female To SMA 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 | | 40 | | 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 | ± 1.25 | ± 1.25 | ± 1.5 | | | 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 | SMA Female | SMA 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: SMA Female
- Connector 2: SMA Male
- Body Material and Plating: Black Anodized Aluminum Heatsink

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40 dB Fixed Attenuator SMA Female To SMA 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: [40 dB Fixed Attenuator SMA Female To SMA Male Directional Up To 6 GHz Rated To 100 Watts With Black Aluminum Heatsink Body SA6SFSM100W-40](#)

URL: <http://www.fairviewmicrowave.com/40db-fixed-attenuator-sma-female-sma-male-100-watts-sa6sfsm100w-40-p.aspx>

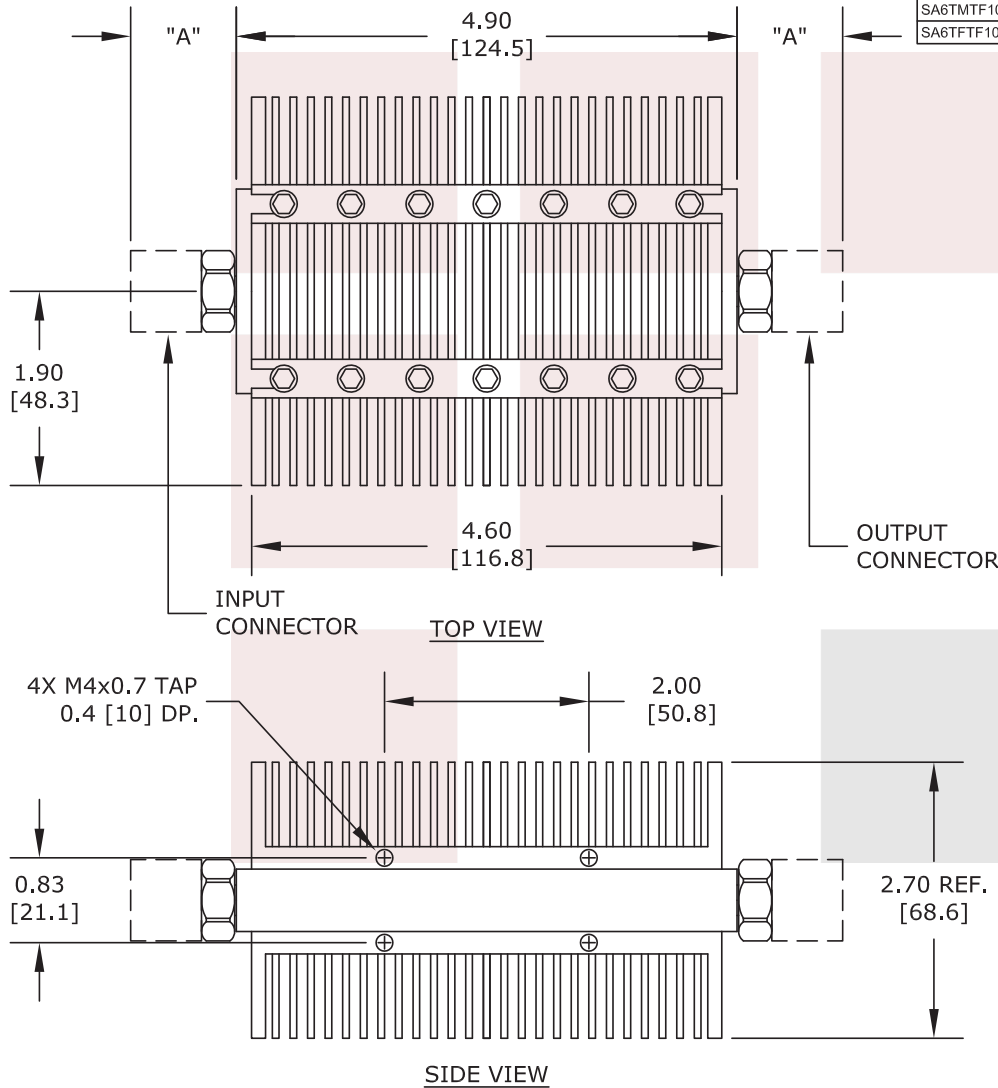
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| Add to end of part number | |
|---------------------------|-------------|
| - yy = | Attenuation |
| - 03 | 3 dB |
| - 06 | 6 dB |
| - 10 | 10 dB |
| - 20 | 20 dB |
| - 30 | 30 dB |
| - 40 | 40 dB |
| - 50 | 50 dB |
| - 60 | 60 dB |

| 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 |
| SA6NFNM100W | 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 |
| SA6FTFM100W | TNC Female | TNC Male |
| SA6FTMF100W | TNC Male | TNC Female |
| SA6FTFF100W | 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 |



| | | | | | |
|---|--------|---|-------|--------------------|-------------|
| 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 40 dB Fixed Attenuator SMA Female To SMA Male Directional Up To 6 GHz Rated To 100 Watts With Black Aluminum Heatsink Body | | DWG NO SA6XXXX100w-yy | | CAGE CODE 3FKR5 | |
| CAD FILE | 062714 | SHEET | SCALE | N/A | SIZE A 2233 |