

**50 dB Fixed Attenuator 7/16 Female To 7/16 Male  
 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    |     | 50  |       | dB     |
| Attenuation Accuracy |     | 1.5 |       | 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 | 50        | 50       |    |    |    | dB    |
| Atten. Accuracy   | ± 1.25    | ± 1.5    |    |    |    | 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                               | 7/16 DIN Female | 7/16 DIN Male       |
| Contact Material & Plating         | Brass, Silver   | Brass, Silver       |
| Outer Conductor Material & Plating | Brass, Silver   |                     |
| Coupling Nut Material & Plating    |                 | Brass, Silver       |
| Hex Size                           |                 | 7/16 Inch           |
| Torque                             |                 | 25 in-lbs [2.83 Nm] |
| Body Material & Plating            | Brass, Silver   |                     |

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://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



**Features:**

- Design: Fixed, Directional Attenuator
- Connector 1: 7/16 DIN Female
- Connector 2: 7/16 DIN Male
- Body Material and Plating: Black Aluminum Heatsink

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50 dB Fixed Attenuator 7/16 Female To 7/16 Male 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: [50 dB Fixed Attenuator 7/16 Female To 7/16 Male Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body SA3DFM300W-50](#)

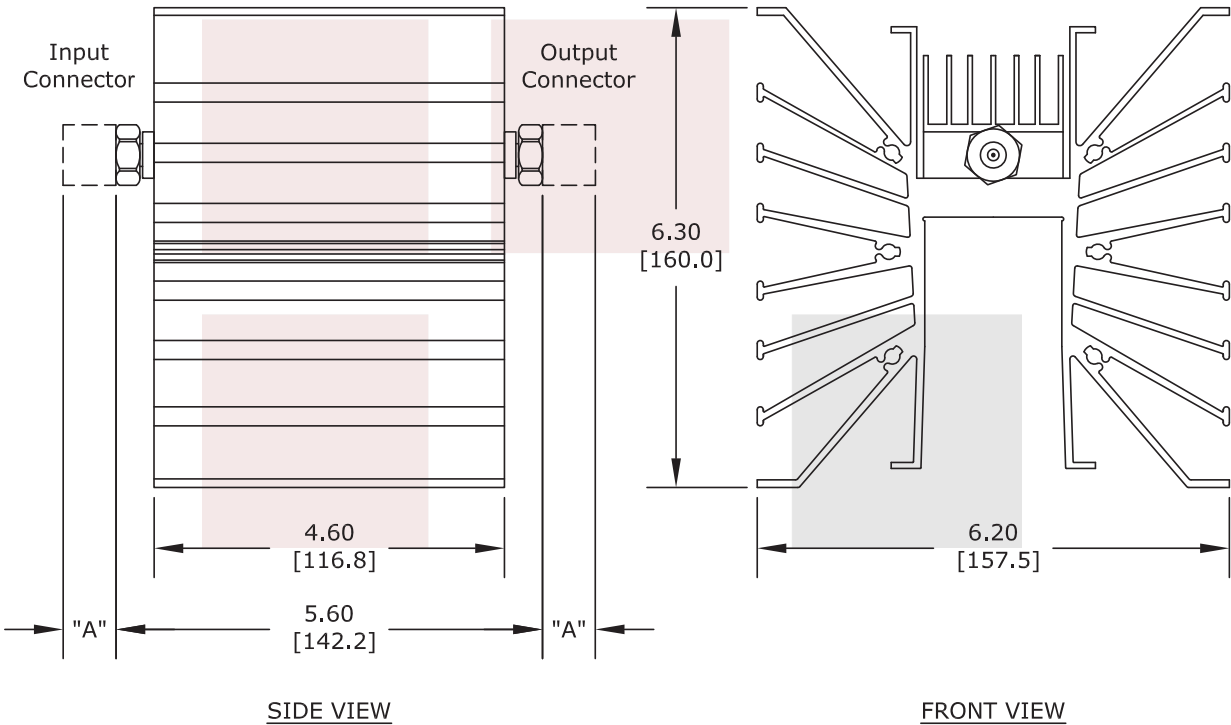
URL: <http://www.fairviewmicrowave.com/50db-fixed-attenuator-7-16-female-7-16-male-300-watts-sa3dfm300w-50-p.aspx>

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><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM   |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                    |             |
| TITLE<br>50 dB Fixed Attenuator 7/16 Female To 7/16 Male<br>Directional Up To 3 GHz Rated To 300 Watts With<br>Black Aluminum Heatsink Body |        | DWG NO<br>SA3xxx300W-yy   |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE  | 090914 | SHEET   | SCALE | N/A                | SIZE A 2233 |