

**6 dB Fixed Attenuator 7/16 Female To 7/16 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    |                               | 6   |       | dB     |
| Attenuation Accuracy |                               | 1   |       | dB     |
| Accuracy Statement   | Attenuation accuracy it + / - |     |       |        |
| 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 | 6         | 6        |    |    |    | dB    |
| Atten. Accuracy   | ± 0.75    | ± 1      |    |    |    | 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 Female |
| Contact Material & Plating         | Brass, Silver   | Brass, Silver   |
| Outer Conductor Material & Plating | Brass, Silver   | Brass, Silver   |
| Body Material & Plating            | Brass, Silver   | 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 Female
- Body Material and Plating: Black Aluminum Heatsink

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6 dB Fixed Attenuator 7/16 Female To 7/16 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: [6 dB Fixed Attenuator 7/16 Female To 7/16 Female Directional Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Body SA3DFF300W-06](#)

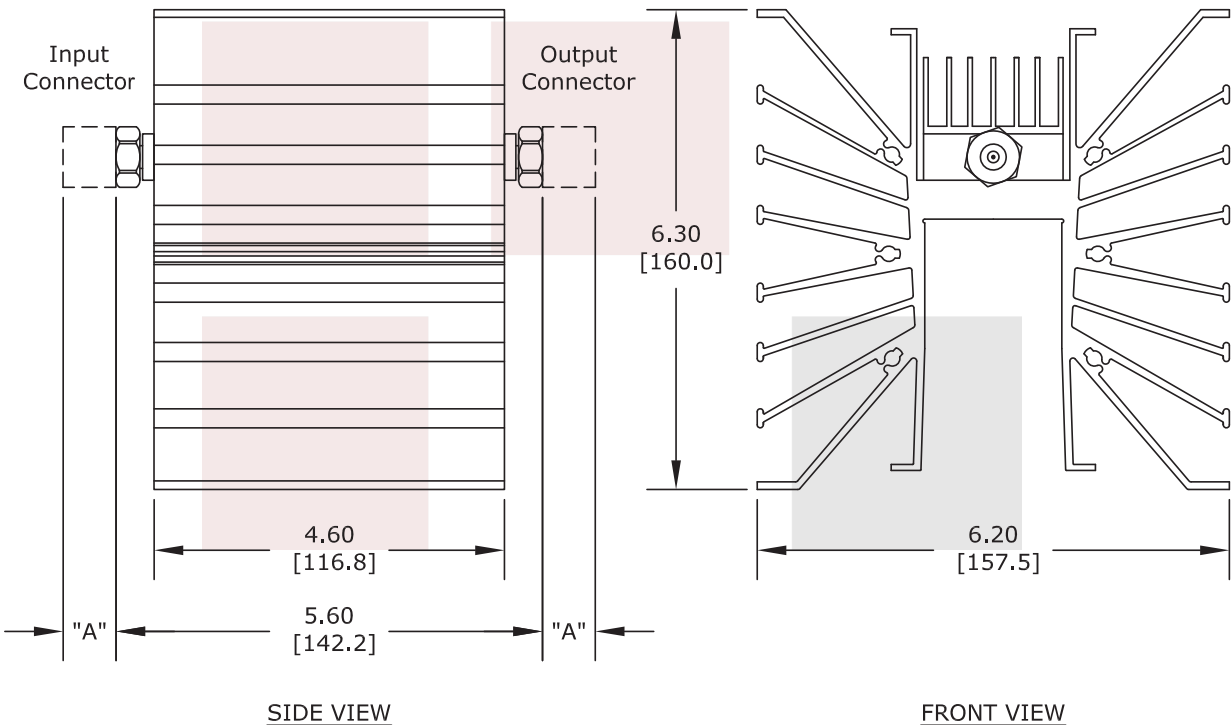
URL: <http://www.fairviewmicrowave.com/6db-fixed-attenuator-7-16-female-7-16-female-300-watts-sa3dff300w-06-p.aspx>

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| 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>6 dB Fixed Attenuator 7/16 Female To 7/16 Female<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 |