Couplers

6-18 GHz

High Power 100 Watt Directional Coupler

- Broadband – 6 to 18 GHz, High Directivity
- Excellent Frequency Flatness
- Operates at 85°C Ambient
- Designed for MIL Environments

Applications

- EW Systems, 100 Watt TWT Power Monitor Circuits, BIT Circuits, Jammers
- Test Equipment/ATE
- Power Amplifier Control
- Radar-Transmitter Circuits
- 100 Watt Miniature Stripline Design

Specifications

SMA (F), 6 to 18 GHz, 100 W

<table>
<thead>
<tr>
<th>FREQUENCY RANGE (GHz)</th>
<th>MODEL</th>
<th>NOMINAL COUPLING (dB)</th>
<th>MAXIMUM DEVIATION FROM NOMINAL (dB)</th>
<th>DIRECTIVITY (dB min.)</th>
<th>TRUE INSERTION LOSS (dB max.)</th>
<th>VSWR PRIMARY LINE (max.)</th>
<th>VSWR SECONDARY LINE (max.)</th>
<th>FREQUENCY SENSITIVITY (dB max.)</th>
<th>POWER* (W)</th>
<th>WEIGHT (oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-18</td>
<td>4196-20</td>
<td>20</td>
<td>±1.0</td>
<td>12</td>
<td>0.5</td>
<td>1.5</td>
<td>1.5</td>
<td>±0.5</td>
<td>100</td>
<td>3.88</td>
</tr>
</tbody>
</table>

* Mounted to a Heat Sink (+85°C Max Housing Temperature). Power derates linearly from 100 watts at 85°C to 0 watts at 125°C housing temperature.

Outline Drawing

NOTES:
1. Dimensions in inches (mm in parentheses), unless otherwise specified.
2. Dotted area represents .020 max. build-up of sealant per surface.