Model 1C0870-20

Directional Couplers
“In-Line” Style

Applications
• Subassemblies
• Lab Systems
• Leveling Loops
• Power Monitoring
• Test and Calibration

Features
• Military Grade
• 0.5 - 4.0 GHz
• “In-Line” Configuration
• Connectors Per MIL-C-39012
• Rugged Aluminum Housing
• Built in Termination

### Electrical Specifications

<table>
<thead>
<tr>
<th>Model#</th>
<th>Frequency (GHz)</th>
<th>Coupling (dB Mean)</th>
<th>Insert. Loss (dB Max)</th>
<th>Input VSWR (Max:1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1C0870-20</td>
<td>0.5 - 4.0</td>
<td>20.0 ± 1.5</td>
<td>0.50</td>
<td>1.30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model #</th>
<th>Freq. Sems. (dB Max)</th>
<th>Directivity (dB Min/Typ)</th>
<th>Max CW Power* (Forward/Backward)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1C0870-20</td>
<td>±1.5</td>
<td>17/20</td>
<td>100/50</td>
</tr>
</tbody>
</table>

Notes: Electrical and Mechanical Specifications subject to change without notice. Impedance: 50 ohms nominal. Meets MIL-E-5400 Class 3 requirements. Additional screening available for military and space applications.

*These power ratings apply when coupled port VSWR is 2.0:1 or less. Higher power can be handled with a lower VSWR termination. In general the Max CW Power is identical to 3 dB couplers when there is no internal termination or one supplied by Anaren. All models have SMA connectors.