Analog Devices Welcomes Hittite Microwave Corporation

NO CONTENT ON THE ATTACHED DOCUMENT HAS CHANGED
This product data sheet does not contain ITAR-controlled technical data because the information is basic marketing information and general system descriptions that do not meet the ITAR definition of technical data.

**Features**
- Highest Power
- Smallest Footprint
- Lightest Weight

**General Description**
High power in a small package, our Dodecahedron package (DDH) is designed to pack a considerable amount of power in a small footprint plus cover a wide bandwidth. Only 2.3” x 2.5” dia., these DDHs are modular so that they can be combined. One DDH will provide 500W, two DDHs will provide 1000W and four DDHs will provide 2000W pulsed output in the X-Band.

**Table 1. Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td></td>
</tr>
<tr>
<td>DC Power</td>
<td>48VDC (28V opt)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>22.5%</td>
</tr>
<tr>
<td><strong>Output Specifications [ @ 25º C ]</strong></td>
<td></td>
</tr>
<tr>
<td>Frequency Range</td>
<td>8.0 -11 GHz</td>
</tr>
<tr>
<td>Saturated Power Output</td>
<td>500/1000/2000 W (1 / 2 / 4 DDHs)</td>
</tr>
<tr>
<td>Rise / Fall Time</td>
<td>200 nsec Max</td>
</tr>
<tr>
<td>Pulse Width</td>
<td>0.5 to 100 µsec</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>20 %</td>
</tr>
<tr>
<td>In/Out VSWR</td>
<td>1.5:1</td>
</tr>
<tr>
<td>Out of Band Spurious Noise</td>
<td>-70.0 dBc Max</td>
</tr>
<tr>
<td>2nd Harmonic</td>
<td>-40.0 dBc Max</td>
</tr>
<tr>
<td><strong>Connectors</strong></td>
<td></td>
</tr>
<tr>
<td>RF Input</td>
<td>SMA Female</td>
</tr>
<tr>
<td>RF Output</td>
<td>&quot;N&quot; Female</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
</tr>
<tr>
<td>Compact Aluminum or Copper Chassis</td>
<td></td>
</tr>
<tr>
<td>Chassis Grounded</td>
<td></td>
</tr>
<tr>
<td>Conduction Cooling (heatsinks and fans optional)</td>
<td></td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20º to 75º C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40º to 50º C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% to 95% non-condensing</td>
</tr>
<tr>
<td><strong>MTBF</strong></td>
<td>200,000 hours</td>
</tr>
</tbody>
</table>