Analog Devices Welcomes Hittite Microwave Corporation

NO CONTENT ON THE ATTACHED DOCUMENT HAS CHANGED
Typical Applications

- Commercial Radar
- Military Radar
- Electronic Warfare
- Test Equipment

High Efficiency Solid State Power Amplifier

- Amplifier module
- KHPA-0618 30WA
- 6-18 GHz 30 Watt amplifier
- 6-18 GHz 30 Watt SSPA
- High efficiency Solid State power amplifier
- Features:
  - Highest Power
  - Smallest Footprint
  - Lightest Weight

General Description

The KHPA-0618 30WA is a unique combination of size, power, and value. The KHPA-0618 is a high power solid-state microwave amplifier featuring our dodecahedron in a compact housing. This amplifier will provide a saturated output of 30 watts and can be configured for pulse capability. Power sequencing, remote inhibit, and a TTL level power supply state monitor are also provided. Depending on customer requirements additional options are available.

Table 1. Specifications

<table>
<thead>
<tr>
<th>Input Power</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>DC Power</td>
<td>48VDC (28V opt)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>22.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output Specifications [ @ 25° C ]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>6.0-18 GHz</td>
</tr>
<tr>
<td>Saturated Power Output</td>
<td>5 dBm Typical</td>
</tr>
<tr>
<td>Small Signal Gain Flatness</td>
<td>± 3.0</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>Gain Stability Over Temp</td>
<td>-2.8 dB +2.5 dBm Max</td>
</tr>
<tr>
<td>Stability</td>
<td>Unconditional (Stable under any load)</td>
</tr>
</tbody>
</table>

Connectors

- RF Input: SMA Female
- RF Output: "N" Female

Mechanical

- Compact Copper Chassis
- Chassis Grounded
- Conduction Cooling (heatsinks and fans optional)

Environmental

- Operating Temperature: -20° to 75° C
- Storage Temperature: -40° to 50° C
- Relative Humidity: 5 to 95% non-condensing

MTBF

- 200,000 hours

The information provided in this document is for a product controlled by the International Traffic in Arms Regulations (ITAR). This product cannot be shipped outside of the United States without a U.S. Department of State export license.