Analog Devices Welcomes
Hittite Microwave Corporation

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** KHPA-0618 30WA **

6-18 GHz 30 Watt SSPA

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.

** Typical Applications **
- Commercial Radar
- Military Radar
- Electronic Warfare
- Test Equipment

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

** Output Specifications [ @ 25º C ] **

| Frequency Range   | 6.0-18 GHz      |
| Saturated Power Output | 5 dBm Typical  |
| Small Signal Gain Flatness | ± 3.0          |
| In/Out VSWR       | 1.5:1           |
| Out of Band Spurious Noise | -70.0 dBc Max |
| Gain Stability Over Temp | -2.8 dB        |
| Stability         | Unconditional (Stable under any load) |

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

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

** Environmental **
- Operating Temperature: -20º to 75º C
- Storage Temperature: -40º to 50º 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.