

Analog Devices Welcomes Hittite Microwave Corporation

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**500/1000/2000W
X-BAND PULSED AMPLIFIER**
Typical Applications

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

**Solid State
Microwave Power Modules**


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.

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

| Input Power | |
|--|-------------------------------------|
| DC Power | 48VDC (28V opt) |
| Efficiency | 22.5% |
| Output Specifications [@ 25° C] | |
| Frequency Range | 8.0 -11 GHz |
| Saturated Power Output | 500/1000/2000 W (1 / 2 / 4 DDHs) |
| Rise / Fall Time | 200 nsec Max |
| Pulse Width | .05 to 100 µsec |
| Duty Cycle | 20 % |
| In/Out VSWR | 1.5:1 |
| Out of Band Spurious Noise | -70.0 dBc Max |
| 2nd Harmonic | -40.0 dBc Max |
| Connectors | |
| RF Input | SMA Female |
| RF Output | "N" Female |
| Mechanical | |
| Compact Aluminum or 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 | |