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

*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

**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	