

Analog Devices Welcomes Hittite Microwave Corporation

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Typical Applications

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

50 Watt Solid State Power Amplifier



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

The KHPA-0218 50WA is a high power solid-state microwave amplifier featuring our dodecahedron in a compact housing. This amplifier will provide a saturated output of 50W 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

Input Power	
DC Power	48VDC (28V opt)
Output Specifications [@ 25° C]	
Frequency Range	2.0-18 GHz
Saturated Power Output	47 dBm Typical
Noise Figure	5 dB Typical
In/Out VSWR	1.5:1
Out of Band Spurious Noise	-70.0 dBc Max
Gain Stability Over Temp	-2.5 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	-20° to 75° C
Storage Temperature	-40° to 50° C
Relative Humidity	5 to 95% non-condensing
MTBF	
200,000 hours	