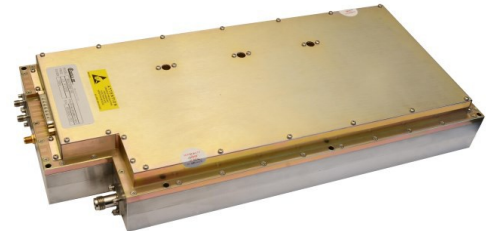


Solid State Power Amplifier Module

2000-6000 MHz, 200 Watts – Model BME2969-200

Stellant PST introduces the highest power density solid-state RF modules, enhancing GaN amplifier performance and efficiency. Designed for communication, electronic warfare, and radar systems, these compact, high-efficiency modules excel in ground, surface, and airborne applications where space, cooling, and power are constrained.



KEY FEATURES

- Highest Power Density to Footprint Ratio
- Ultra Wideband Operation
- Highest Efficiency Over Entire Bandwidth
- Rugged and Reliable
- Extreme Temperature Range Usage
- RF Output Coupled Sample Port
- Internal DC to DC Converters
- Optional T/R Pin Switch Available
- Suitable Building Block for Rack Mounted Systems
- Maintains Output Power w/Real-World Load Conditions

SPECIFICATIONS




Frequency Range	2000-6000 MHz
RF Power Output (P3dB)	150 Watts typical
Saturated Power Output (Psat)	200 Watts
RF Input Range	-16 to -3 dBm typical
RF Input Overdrive	+10 dBm max
DC Bias	AB Linear
Modulation Format	Multi-tone/CW/AM/FM/Pulse
Input VSWR	2.0:1 typical
Output Load VSWR	2.0:1 typical
Harmonic (In Band 2nd/3rd)	< -12 dBc typical
IM Products (4 Tones)	< -12 dBc typical
Spurious	< -60 dBc
Stability	Open/Short Tested
Built in Test	Composite Fault Indication (Over Temperature, Over Voltage, Over Current)
Noise Power Output	
Biased	-70dBm/Hz Typical
Quieted	-150dBm/Hz Typical

RF In/RF Out Sample Ports	Yes
Control Interface	RS-422 SPI
PA Enable/Disable	3.3V TTL (<5μS)
DC Input	18-32 Vdc
DC Power @ 24V	840W typical
Efficiency (DC to RF)	18% typical
RF Connectors	
RF Input and Sample Ports	SMA (2X)
RF Output	TNC-Female (1X)
Interface Connector	D-Subminiature (1X)
DC Power Connector	D-Subminiature (1X)
Operating Temperature	-40 to +85°C Baseplate
	+85°C @Pout of 150W +55°C @Pout of 200W
Environmental	Shock/Vibration MIL-STD-810F
Size	15" x 6.7" x 2.3"
Weight	15 lbs

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