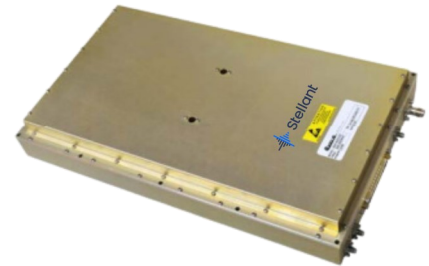


Solid State Power Amplifier 1000 to 2500 MHz, 250 Watts

Model BME19258-250

Overview

Stellant PST proudly introduces the highest power density solid state RF modules available in the marketplace today. Stellant's latest development expands on its proven innovative integrated RF GaN Power Amplifier designs by further increasing the RF power density, while improving overall operating efficiency. Consistent with its planned technology development roadmap, Stellant is leading the field with the latest in GaN-based RF device performance and advanced amplifier development. These highly integrated designs are ideal for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited. Applications include ground (mobile or fixed), surface, and airborne platforms.



Features

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

Performance Specifications

• Frequency Range:	2000 to 6000 MHz	• RF In/RF Out Sample Ports:	Yes
• Saturated Power Output (Psat):	300 Watts	• Control Interface:	RS-422 SPI
• Output Power into 2.0:1 VSWR:	200 Watts Min	• PA Enable/Disable:	Low Volt. TTL (<5μS) 3.3V
• RF Input Range:	-10 to 0dBm Typical	• DC Input:	18-32Vdc
• RF input Overdrive:	+10 dBm Max.	• DC Power @ 24V:	1000W Typical
• DC Bias:	AB Linear	• Efficiency (DC to RF):	25% Typical
• Modulation Format:	Multi-tone, CW, AM, FM, Pulse	• Noise Power Output:	-80dBm/Hz typical
• Input VSWR:	2.0:1 Max	• RF Connectors:	
• Output Load VSWR:	2.0:1 Typical	• RF Input and Sample Ports:	
• Harmonic (In Band 2nd/3rd):	<-20 dBc Typical	RF Input and Sample Ports	SMA (3X)
• IM Products (4 Tones):	<-20 dBc Typical	RF Output:	TNC-Female
• Spurious:	<-60 dBc	• Interface Connector:	D-Subminiature
• Stability:	Open/Short Tested	• Operating Temperature:	-40 to 85°C Baseplate (external heatsink required)
• Built in Test:	Composite Fault Indication RS-422 (Over Temp, Over Current)	• Environmental:	Shock/Vibration MIL-STD- 810F
• Fwd./Rev. Sample Analog Voltage		• Size:	15" x 9" x 2.25"
• Noise Power Output:		• Weight:	14.5 lbs.
- Biased	-70dBm/Hz Typical		
- Quieted	-150dBm/Hz Typical		

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