

Solid State Power Amplifier Module

2000 to 6000MHz, 200 Watts

MODEL BME2969-200

Features:

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



Performance Specifications

- Frequency Range: 2000 to 6000 MHz
- RF Power Output (P3dB): 150 Watts Typical
- Saturated Power Output (Psat): 200 Watts
- RF Input Range: -16 to -3dBm 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: 18-32Vdc
- 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 (external heatsink required)
 - +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.

COMTECH PST proudly introduces the highest power density solid state RF modules available in the marketplace today. Comtech'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, Comtech 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 (dismounted, mobile or fixed), surface, and airborne platforms.