

Solid State Power Amplifier Module

2000 to 6000MHz, 300 Watts

MODEL BME2969-300

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
- Saturated Power Output (Psat): 300 Watts
- Output Power into 2.0:1 VSWR: 200 Watts Min
- RF Input Range: -10 to 0dBm Typical
- RF input Overdrive: +10 dBm Max.
- DC Bias: AB Linear
- Modulation Format: Multi-tone, CW, AM, FM, Pulse
- Input VSWR: 2.0:1 Max
- Output Load VSWR: 2.0:1 Typical
- Harmonic (In Band 2nd/3rd): <-20 dBc Typical
- IM Products (4 Tones): <-20 dBc Typical
- Spurious: <-60 dBc
- Stability: Open/Short Tested
- Built in Test: Composite Fault Indication RS-422 (Over Temp, Over Current)
- Fwd./Rev. Sample: Analog Voltage
- Noise Power Output:
 - Biased: -70dBm/Hz Typical
 - Quieted: -150dBm/Hz Typical

- Summary Fault Indication: 3.3V RS-422
- PA Blanking Enable/Disable: 3.3V RS-422 (<5μS)
- DC Input: 18-32VDC
- DC Power @ 28V: 1800W Typical
- Efficiency (DC to RF): 18% Typical
- RF Connectors:
 - RF Input: SMA (1X)
 - RF Output: SC (1X)
 - RF Out Coupled Sample: SMA (1X)
- Interface Connector: D-Subminiature (1X)
- DC Power Connector: D-Subminiature (1X)
- Operating Temperature: -40 to +70°C Baseplate (External heatsink required)
- Altitude: up to 50kft
- Relative Humidity: 100% Condensing
- Environmental: Shock/Vibration MIL-STD-810F
- Size: 15.25" x 7" x 2.67"
- Weight: 17 lbs. Max

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 (mobile or fixed), surface, and airborne platforms.

Contact Comtech PST with your specific requirements for a customized solution.