

Solid State Power Amplifier 2000 to 6000MHz, 200 Watts MODEL BHE2969-200

Features:

- High Power Density to Footprint Ratio
- Ultra Wideband Operation
- Highest Efficiency Over the Entire Bandwidth
- Rugged and Reliable
- RF Output Sample Port
- Internal Power Supply
- Maintains Output Power with Real-World Load Conditions
- Internal Protection and Gain Control



Performance Specifications

- Frequency Range: 2000-6000MHz
- RF Power Out:
 - P3dB 150 Watts
 - Psat 200 Watts
- RF Gain: 54dB nominal +/-3dB
- RF Input: 0 dBm; ±3dB Typical
- RF Input Overdrive: 8 dBm Max
- Class of Operation: AB Linear
- Modulation Format: Multi-tone, CW, AM, FM, SSB Pulse
- Input/Output Load VSWR: 2.0:1
- Harmonic Rejection: <-12 dBc
- Spurious: <-60 dBc
- PA Enable/Disable: Response Time < 5µsec
- Cooling: Forced Air (internal fan)
- Local Indicators: Thermal Fault, Power-On
- Internal Protection: Load VSWR, Overdrive, Over-Current, Thermal Overload

- AC Input: 100-265VAC, 47-440Hz, 1-Phase
- AC Power Input: 1.35KVA (typical)
- RF Connectors:
 - RF Input Type-N female
 - RF Output Type-SC female
- Noise Power Output:
 - o Biased -80dBm/Hz Typical
 - o Quieted -150dBm/Hz Typical
- Environmental:
 - Operating Temperature: -10° to +50°C @ 150W Pout
-10° to +30°C @ 200w Pout
 - Operating Altitude: 25,000 feet
 - Shock/Vibration: MIL-STD-810G
- Size: 5.25" x 19" x 22"
- Weight: 60 lbs.

- Available Options:**
- RS-422 SPI Interface
 - Integrated T/R Switch
 - ALC

Comtech PST has announced the release of a solid state Class "AB" linear amplifier which operates over the full 2000-6000 MHz frequency bandwidth and delivers a minimum of 150 watts into a 2:1 load VSWR. This high gain amplifier uses the latest Gallium Nitride (GaN) technology and is packaged in a standard rack mountable enclosure measuring 19" x 22" x 5.25". The unit has an internal power supply that operates from 100-265VAC, 47-400Hz Single Phase making it ideal for both laboratory and airborne applications. The unit is air cooled by an integrated high speed blower. Optional remote control through RS422 is available. Comtech PST can also add Digital Automatic Leveling Loop (ALC), T/R switches, dummy loads or filters to meet your specific requirements. This unit weighs 60 lbs. and has a standard one year warranty.