

# Solid State Power Amplifier 2500 to 6000MHz, 150 Watts MODEL BHED25869-150

### Features:

- GaN Technology for Ultra Wideband Operation
- Compact Configuration
- Rugged Design Ideal for Military/Commercial Applications
- Optional Integrated T/R Switch



Comtech PST has announced the release of a solid state Class "AB" linear amplifier which operates over the full 2500-6000 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 Dual Directional Couplers, 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.

## Performance Specifications

- Frequency Range: 2500-6000MHz
- 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, Single Phase
- AC Power Input: 1.35KVA (typical)
- RF Connectors:
  - RF Input Type-N female
  - RF Output Type-SC female
- Environmental:
  - Operating Temperature: -10° to +30°C
  - Operating Altitude: 10,000 feet
  - Shock/Vibration: MIL-STD-810G
- Size: 5.25" x 19" x 22"
- Weight: 60 lbs.

### Available Options:

- RF Sample Ports
- RS-422 Interface
- Integrated T/R Switch
- ALC