

# Solid State Power Amplifier 700 to 2300MHz, 200 Watts MODEL BHED78238-200

## Features:

- High Power Output
- Instantaneous Multi-Octave Bandwidth
- Gallium Nitride (GaN) Technology
- Rugged Field Proven Construction
- Multi-Tone Capability
- Ethernet Interface
- Fast Noise Quieting Speed
- Class AB Amplifier
- Digital Display and Control
- ALC Circuitry



## Performance Specifications

- Frequency Range: 700 to 2300 MHz
- RF Power Output (P3dB): 200 Watts Minimum  
250 Watts Typical
- Gain: 53 dB +/- 0.5 (ALC)
- Gain Flatness: 0.25 dB over any 25MHz
- RF Input Power: 0dBm Typical
- RF input Overdrive: +8 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: <-13 dBc Maximum
- IM Products: <-18 dBc Typical
- Spurious: <-50 dBc Maximum
- Stability: Open/Short Tested
- Fault Protection/Monitoring: Fault Indication (Over Temperature, Power Supply, VSWR Turn-down)

- Control Interface: Ethernet/RS-422
- PS On/Off: Low Volt. TTL
- AC Input: 100-265VAC  
50-60Hz 1-Phase
- Display: Digital Status and Control
- Noise Power Output:  
Quieted: -150dBm/Hz Maximum  
Transmit: -86dBm/Hz Typical
- RF Connectors: Type-N
- RF Input/Output: Type-N
- Operating Temperature: -10 to 50°C
- Environmental: Shock/Vibration MIL-STD-810G
- Humidity: 95% Non-condensing
- Altitude: 10,000 Feet
- Size: 24" x 19" x 5.25"
- Weight: 60 lbs.

COMTECH PST proudly introduces its latest rack mounted wideband high power solid state RF amplifier. Comtech has integrated its proven RF GaN Power Amplifier Module designs into a single 19" rack. Comtech consistently evaluates its amplifier performance at rated power over the temperature range into a 2:1 VSWR Load therefore we always meet customer expectations. Our latest Standard Model features an internal AC power supply, full Ethernet Interface/GUI Control, Front Panel Digital Display for Forward and Reverse Power, Temperature, Current etc, and separate Fault LEDs. These highly integrated designs are ideal for use in communication, electronic warfare, and radar transmitter systems where self-contained full amplifier solutions are a necessity. Applications include ground mobile or fixed, surface, and airborne platforms. This commodity is subject to the ITAR control. Call us for more details.