

Solid State Power Amplifier

100 to 500MHz, 300 Watts

MODEL BHED1858-300

Features:

- High Power Output
- Instantaneous Multi-Octave Bandwidth
- Rugged Field Proven Construction
- Multi-Tone Capability
- Ethernet Interface
- Fast Noise Quieting
- Class AB Amplifier
- Digital Display and Control



Performance Specifications

- Frequency Range: 100 to 500 MHz
- RF Power Output (P1dB): 300 Watts Minimum
325 Watts Typical
- RF Input Power: 0dBm
- 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 (In Band 2nd/3rd): <-20/-18 dBc Maximum
- IM Products: <-18 dBc Typical
- Spurious: <-60 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:
 - Stand-by: -160dBm/Hz Maximum
 - Quieted: -140dBm/Hz Maximum
 - Transmit: -100dBm/Hz Maximum
- RF Connectors: Type-N
- RF Input/Output: Type-N
- Operating Temperature: -10 to 50°C
- Environmental: Shock/Vibration MIL-STD-810G
- Size: 24" x 19" x 5.25"
- Weight: 54 lbs.

COMTECH PST proudly introduces its newest high power solid state RF amplifier. Comtech's latest development expands on its proven innovative integrated RF LDMOS Power Amplifier designs by further increasing the RF power density, while improving overall operating efficiency. Consistent with long standing history of reliable design, Comtech is continuing to lead the field in LDMOS-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.