

# Solid State S-Band Power Amplifier

## 3100 to 3500 MHz, 13000 Watts

### MODEL BPC318358-13000

#### Features:

- AB Linear GaN Technology
- Full Band Operation
- High Gain
- RF Output Power Monitor Sample Ports
- Internal Power Supply
- Internal Protection and Gain Control
- Ethernet Monitoring Interface
- Circulator Protected



## Performance Specifications

- Frequency Range: 3100-3500 MHz  
(2.9-3.5 GHz available)
- Peak Power Output: 13,000 Watts
- RF Gain: 71 dB nominal
- Pulse Width: 2 to 200µs
- Duty Cycle: 10% Max
- Pulse Droop: <1db typical
- Rise Time: <60ns typical
- Fall Time: <60ns typical
- Class of Operation: AB Linear
- Input/Output Load VSWR: 2.0:1
- Harmonic Rejection: 2Fo <-40 dBc  
3Fo <-50 dBc
- Spurious: <-60 dBc
- PA Enable/Disable: Response Time < 5µsec
- Cooling: Forced Air (internal fans)
- Control & Status: Ethernet (10/100BASE-T)
- Internal Protection: Load VSWR, Over-Current, Thermal Overload, Pulse Width, Duty Factor

- AC Input: 208 VAC, 3Phase, 60Hz
- AC Power Input: 1.35KVA (typical)
- RF Connectors:
  - RF Input: Type-N female
  - RF Output: Waveguide – WR 284
- Noise Power Output:
  - o Biased: -80dBm/Hz Typical
  - o Quieted: -130dBm/Hz Typical
- Environmental:
  - Operating Temperature: -0° to +30°C
  - Operating Altitude: 10,000 feet
  - Shock/Vibration: MIL-STD-810G
- Size: 24"W x 25.5"H x 24"D
- Weight: 230 lbs.

Comtech PST is pleased to announce the release of a new Gallium Nitride (GaN) High Power S-Band amplifier. The solid state Class "AB" linear amplifier operates over the full 3100-3500 MHz frequency range and delivers a minimum of 13000 watts. This high gain amplifier uses the latest Gallium Nitride (GaN) technology and is packaged in an enclosure measuring 24"x25.5"x24". The unit has an internal power supply that operates from 208 VAC 3 Phase making it ideal for ground based systems and laboratory applications. The unit is air cooled by an integrated high speed blower. Control and status monitoring is provided via an Ethernet 10/100BASE-T interface. This unit weighs 230 lbs. and has a standard one year warranty.