

X-Band Radar Solid State Power Amplifier 9.0-9.9 GHz, 8000 Watts **MODEL BMPC9X89X8-8000**

Pulsed Amplifier Features:

- Class AB Gallium Nitride (GaN) Technology
- High Output Power Dynamic Range
- **Excellent Efficiency**
- RF Input & Output Sample Detectors
- Pulse Width and Duty Factor Protection
- Thermal and Load VSWR Protection
- Remote Status/Control Interface (Ethernet)
- Ruggedized for Harsh Environmental Apps
- **Customization Available**
- RF Modular Combining 2kW-16kW
- **Internal AC Power Supply**
- **Graceful Degradation**



Typical Performance Specifications

· Frequency Range: 9.0 to 9.9GHz* • Instantaneous Bandwidth: Up to 500MHz Output Power: 8000W Peak Power Gain: 69dB (Nominal) 0.25 to 100 µs (Max) · Pulse Width: Duty Cycle: 10% (Max) Pulse Droop: ~<1.0dB

 Pulse Rise & Fall Time: <50ns (Typical) Input VSWR: <1.5:1 Output Load VSWR <1.5:1

 Load VSWR Protection: ∞VSWR (Circ) • Output Fwd. & Ref. Sample: -60dBc Harmonics: -60dBc

 Phase Noise -100 dBc/Hz @ 100Hz • Noise Output (RF Off) -170dBm/Hz (Typical)

*Consult factory for other specific X-Band operations

 AC Voltage Input: AC Power Input: Operating Temperature: Operating Humidity: Operating Shock & Vibration: Operating Altitude:

 Control Interface: Gate Control (On/Off):

· RF Connectors: RF Input and Sample Ports:

RF Output: · Size:

· Weight:

115 VAC 3Ф 50-400Hz 2.8KVA Max. (@5% DF) 0°C to +50°C baseplate 0 to 95% non-condensing Per Mil-Std-810F 12,000 Ft. Ethernet (RJ-45)

SMA (F) WR-112 or WR-90 19" x 12.25" x 24"

90 lbs.

RS-422 differential

COMTECH PST proudly introduces a new Gallium Nitride (GaN) amplifier for applications in the X-Band pulsed radar market. The AB linear design operates from 9.0 to 9.9 GHz frequency range over any instantaneous bandwidth of 500MHz. Development of this product is intended for use in ruggedized Radar applications. The amplifier design

features Self Protection for Load VSWR, Duty Factor, Pulse Width, Temperature, as well as a graceful degradation in case of a RF power module failure. Custom configurations and features are available as well as specific power levels up to 16kW.

Contact us with your requirements today.

Call: 631-777-8900 or Email sales@comtechpst.com or contact your local representative.