

X-Band Solid State Power Amplifier Module 9.0-10 GHz, 40 Watts MODEL BME99109-40

Features:

- CW or Pulse Applications
- TWT Replacement
- Instantaneous 1000 MHz bandwidth
- AB Linear Gallium Nitride (GaN) Technology
- High Output Power Dynamic Range
- Forward and Reverse Power Monitoring
- Thermal and Load VSWR Protection
- Digital Interface for Control & Status Monitoring
- Phase and Amplitude Matching
- Ideal Building Block for Phased Array Radar or Range Instrumentation Systems
- ESD Protection IAW EN61000-4-2, MIL-STD-461F, CS101 and CE102



Performance Specifications

Frequency Range:
Output Power:
Power Gain:
9.0 to 10 GHz
40W CW (+46 dBm)
46 dB nominal

Dynamic Range: 30 dB
 Phase Stability + 2.0° Po

Phase Stability ± 2.0° Peak to Peak
 Duty Cycle: up to 100% DF
 Input VSWR: <1.8:1
 Output Load VSWR 1.5:1

Load VSWR Protection: Internal Circulator
 Input RF Overdrive +10 dB Max
 Output Fwd. & Rev. Monitoring: ± 0.5 dB typical

Harmonics:

2Fo: <-60dBc 3Fo: <-80dBc RF to DC Efficiency:
Operating Temperature:
Operating Humidity:
Operating Shock & Vibration:
Operating Altitude:
Control Interface:
RF Connectors:
RF Input Port:

• DC Power Consumption:

• DC Voltage Input:

RF Output:

• DC & Interface Connectors:

Size:Weight:

+36 VDC to +45 VDC

225W max >18 % typical

0°C to +55°C baseplate 0 to 95% non-condensing Per Mil-Std-810F

Per MII-Sta-8 10,000 Ft. RS-485

SMA Female WG-90 (Bottom Surface) *Mighty Mouse* Series 80 4.00" x 4.00" x 3.33"

2.5 lbs.

COMTECH PST proudly introduces another new Gallium Nitride (GaN) amplifier for X-Band applications. This class AB linear design operates over the full 9.0-10 GHz frequency range and is ideal for use in Phase Array Radar applications, as a TWT replacement or for a microwave communication link. The amplifier features phase and amplitude control, internal DC to DC converters and DC filtering, PA self-test and LED fault indications, unique waveguide coupling circuits, an internal isolator and digital control via a magic tee. The small light weight construction makes it amenable to a variety of platforms and environments. Contact our Marketing or local Representatives to discuss how Comtech's experts can support your next solid state amplifier requirement with its standard or custom designs for Radio Communications, HF, VHF UHF, L, S, C, and X Band Pulse Radar, TWT replacement, IFF, EW Jamming, Satellite, or Medical Instrumentation. Comtech PST is an innovative leader of SSPA systems.