

Solid State Power Amplifier Module

X-Band 7 to 11GHz, 170 Watts

MODEL BME79119-170

TWT/MPM Replacement Features:

- 4GHz Bandwidth
- Class AB CW
- Rugged and Reliable
- Compact and Lightweight
- GaN Technology
- Low Harmonic Distortion
- Low Voltage Operation



Performance Specifications

- Frequency Range: 7-11 GHz
- RF Power Output (Psat): >200 Watts (Typical)
- RF Power Output (50 Ohms): 170 Watts (Minimum)
- Gain @ Psat: >53 dB typical
- RF input Overdrive: +5 dBm Max.
- Gain Flatness @ 0 dBm Input: ±0.5 dB typical
- Class of Operation: AB
- Input/Output VSWR: 2.0:1 Maximum
- Harmonics at 170W output:
 - 2fo: <-20 dBc
 - 3fo: <-30 dBc
- Spurious: <-60 dBc
- Noise Output Power: <-90 dBm/Hz
- Stability: Open/Short Tested
- Built in Test: Over Current Fault
Over Temperature Fault
High Reflected Power Fault

- DC/Control Interface: 9-pin Combo D
- PA Enable/Disable: 5.0V TTL (<2µS on/off)
- DC Input: +24 to 32 VDC
- DC Power @ Standby: <30W
- Efficiency (DC to RF): >20% typical
- RF Connectors:
 - RF Input: SMA Female field replaceable
 - RF Output: TNC Female field replaceable
- Operating Temperature:
 - 40 to +65° C baseplate
 - +65 to 80° C derated power (External heatsink required)
- Storage Temperature: -40 to 85° C
- Environmental: Shock/Vibration MIL-STD-810F
- Altitude: 10,000 feet
- Size: 8.0" x 6.0" x 2.5"
- Weight: 6 lbs. (Max)

COMTECH PST proudly introduces its latest addition to its GaN solid state power amplifier product line. Comtech's latest development continues to expand on its integrated RF GaN Power Amplifier designs by offering a small form factor (SFF) module. Consistent with its planned technology development roadmap, Comtech proudly introduces the latest in GaN-based 7-11GHz RF amplifier for **TWT/MPM Replacement**. This highly integrated design is ideal for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited. Comtech PST is a leading supplier in custom-built solid-state amplifiers for the U.S. and International markets.