

X-Band Solid State Power Amplifier Module

7-11 GHz, 170 Watts — Model BME79119-170

Stellant PST expands its GaN solid-state power amplifier line with a new small form factor (SFF) module, advancing its integrated RF GaN amplifier designs. This new GaN-based 7-11 GHz RF amplifier module is for TWT/MPM replacement, designed for communication, electronic warfare, and radar systems where space, cooling, and power are limited.



KEY FEATURES

- 4 GHz 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	DC/Control Interface	9-pin Combo D
RF Power Output (Psat)	>200 Watts (Typical)	PA Enable/Disable	5.0V TTL (<2μS on/off)
RF Power Output (50 Ohms)	170 Watts (Minimum)	DC Input	+24 to 32 VDC
Gain @ Psat	>53 dB typical	DC Power @ Standby	<30W
RF input Overdrive	+5 dBm Max.	Efficiency (DC to RF)	>20% typical
Gain Flatness @ 0 dBm Input	±0.5 dB typical	RF Connectors	
Class of Operation	AB	RF Input	SMA Female
Input/Output VSWR	2.0:1 Maximum	RF Output	TNC Female
Harmonics at 170 W output		Operating Temperature	-40 to +65° C baseplate
2fo	<-20 dBc		+65 to 80° C derated power (external heatsink required)
3fo	<-30 dBc	Storage Temperature	-40 to 85° C
Spurious	<-60 dBc	Environmental	Shock/Vibration MIL-STD-810F
Noise Output Power	<-90 dBm/Hz	Altitude	10,000 feet
Stability	Open/Short Tested	Size	8.0" x 6.0" x 2.5"
Built in Test	Over Current Fault	Weight	6 lbs. (Max)
	Over Temperature Fault		
	High Reflected Power Fault		

Power Systems Technology (PST)

105 Baylis Road | 417 Boston St.
Melville, NY 11747 | Topsfield, MA
T: 613-777-8900 | T: 978-997-5754



StellantSystems.com   
Sales-PST@stellantsystems.com
info@stellantsystems.com