Power Systems Technology (PST)

Solid State Power Amplifier (Pulsed) 3.1-3.5GHz, 900 Watts

Model: BMPC318358-900

Stellant PST proudly introduces a new Gallium Nitride (GaN) amplifier for applications in the S-Band radar market. The AB linear design operates over the 3.1-3.5 GHz frequency band and is easily modified to also support 2.9-3.1 GHz radar applications. The amplifier design features include options for control of phase and amplitude to allow for integration into high power systems utilizing conventional binary or phased array combining approaches for power levels of up to 10kW.



Consistent with its planned technology development roadmap, Stellant PST is leading the field with the latest in GaN-based RF device performance and advanced amplifier development.

KEY FEATURES

- AB Linear 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
- Optional Digital Interface for Control & Status Monitoring
- Optional Phase and Amplitude Control
- Suitable Building Block for Phased Array Systems

9.2 to 10.0 GHz
1000W typical (60 dBm + 1.5 dB over full temperature)
60dB nominal
0.25 to 100 μs max
5% max
<1.0 dB @ 50µs PW
<50ns
<1.5:1
<1.5:1
∞VSWR
-60dBc
<-40dBc
<-50dBc
>110 dBc

+28VDC ±1VDC
300W typical, 5% duty cycle
L6% typical
40°C to +65°C baseplate
0 to 95% non-condensing
Per Mil-Std-810F
L0,000 Ft.
TTL
nalog voltage
SMA Female
TNC Female
9.6" x 6.8" x 2.0"
5.5 lbs.
SMC Male Jack

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