Power Systems Technology (PST)

🕨 Stellant

X-Band Solid State Power Amplifier Module 9.2 to 10 GHz, 1000 Watts

Model BMPC928109-1000

Overview

Stellant PST proudly introduces a new Gallium Nitride (GaN) amplifier for applications in the X-Band radar market. The AB linear design operates over the 9.2-10.0 GHz frequency range intended for use in radar applications. Consistent with its planned technology development roadmap, Stellant is leading the field with the latest in GaN-based RF device performance and advanced amplifier development.

Features



- AB Linear Gallium Nitride (GaN) Technology
- High Output Power Dynamic Range
- Excellent Efficiency

- RF Output Detectors
- Pulse Width and Duty Factor Protection
- Thermal and Load VSWR Protection

Performance Specifications

• • • • • • •	Frequency Range: Peak Output Power: Power Gain: Pulse Width: Duty Cycle: Pulse Droop: Pulse Rise & Fall Time: Input VSWR: Output Load VSWR Load VSWR Protection: Harmonics: 2Fo: 3Fo: RF Pulse: On-Off Isolation	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 <-40dBc <-50dBc ≥110 dBc		DC Voltage Input: DC Supply Power: RF to DC Efficiency: Operating Temperature: Operating Humidity: Operating Shock & Vibration: Operating Altitude: PA Enable/Disable: Forward and Reverse Detectors: RF Connectors: RF Connectors: RF Output: DC & Interface Connectors: Size: Weight: Modulation Input Connector:	+28VDC ±1VDC 300W typical, 5% duty cycle 16% typical -40°C to +65°C baseplate 0 to 95% non-condensing Per Mil-Std-810F 10,000 Ft. TTL Analog voltage SMA Female TNC Female Combo-D-Subminiature 9.6" x 6.8" x 2.0" 5.5 lbs. SMC Male Jack
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