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## X-Band Solid State Power Amplifier Module 9.2-10 GHz, 1000 Watts <u>MODEL BPMC928109-1000</u>

## 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**

<ul> <li>Frequency Range:</li> <li>Peak Output Power:</li> <li>Power Gain:</li> <li>Pulse Width:</li> <li>Duty Cycle:</li> <li>Pulse Droop:</li> <li>Pulse Rise &amp; Fall Time:</li> </ul>	9.2 to 10.0 GHz 1000W typical (60 dBm <u>+</u> 1.5 dB over full temperature) 60dB nominal 0.25 to 100 μs max 5% max <1.0 dB @ 50μs PW <50ns	<ul> <li>DC Voltage Input:</li> <li>DC Supply Power:</li> <li>RF to DC Efficiency:</li> <li>Operating Temperature:</li> <li>Operating Humidity:</li> <li>Operating Shock &amp; Vibration:</li> <li>Operating Altitude:</li> <li>PA Enable/Disable:</li> </ul>	+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
<ul> <li>Input VSWR:</li> <li>Output Load VSWR</li> <li>Load VSWR Protection:</li> <li>Harmonics: 2Fo: 3Fo:</li> <li>RF Pulse: On-Off Isolation</li> </ul>	≤1.5:1 ≤1.5:1 ∞VSWR <-40dBc <-50dBc ≥110 dBc	<ul> <li>Forward and Reverse Detectors:</li> <li>RF Connectors: RF Input and Detector Ports: RF Output:</li> <li>DC &amp; Interface Connectors:</li> <li>Size:</li> <li>Weight:</li> <li>Modulation Input Connector:</li> </ul>	Analog voltage SMA Female TNC Female Combo-D-Subminiature 9.6" x 6.8" x 2.0" 5.5 lbs. SMC Male Jack

COMTECH 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, Comtech is leading the field with the latest in GaNbased RF device performance and advanced amplifier development.

> Contact your local Comtech PST representative, E-mail Address: <u>sales@comtechpst.com</u> SPECIFICATIONS ARE SUBJECT TO CHANGE · *Certified for Public Release (CPST PRM-15-65c)*