Empower RF 2221: Unprecedented X-Band Pulse Widths

The Empower RF 2221 amplifier operates in the 9-10 GHz X-band, delivering an impressive 8000W peak output power with long and short pulse widths. Its applications encompass radar systems, electronic warfare, HPM research, and electromagnetics effects testing. With a rugged, modular design, the 2221 offers a reliable, high-performance solution for applications demanding significant X-band power.

Key Features and Specifications

The model 2221 amplifier operates in the 9-10 GHz X-band

frequency range, delivering an impressive 8 kW of peak pulsed output power. This high-performance system boasts:

- Exceptional Gain: Typical gain of 70 dB with ±1-dB gain flatness1
- Versatile Pulse Capabilities: Supports 0.2 to 500-µs pulse widths at duty cycles from 0.5 to 20.0%
- High Pulse Repetition Frequency: Operates at PRFs up to 50 kHz
- Advanced GaN Technology: Utilizes multiple GaN-on-SiC SSPAs for superior performance

Key Design Elements Include

- Compact Form Factor: Rackmount system measuring 17.50 × 26.25 × 27.05 inches
- Integrated Control: Built-in control, monitoring, and protection functions
- Efficient Cooling: Forced-air cooling system for optimal performance
- Flexible Power Supply: Operates from three-phase 180 to 260 VAC power supplies

To learn how the 2221 amplifier fits your application, contact Empower RF today and speak with one of our experts.

Learn More About This Product: https://www.empowerrf.com/products/display_amplifier.php?sku=2221

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