

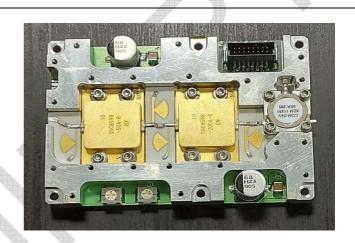
Intech microwaves s.r.l.

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X-Band Solid State Power Amplifier Module 8.5-9.5 GHz, 180 Watts **MODEL A100433**

Features:

- **Pulse Applications**
- TWT Replacement
- Instantaneous 1000 MHz bandwidth
- Gallium Nitride (GaN) Technology
- High Output Power Dynamic Range
- Load VSWR Protection
- Ideal Building Block for solid state Radar Transmitter and Range Instrumentation Systems
- ESD Protection IAW EN61000-4-2, MIL-STD-461F, CS101 and CE102



Performance Specifications

Frequency Range: 8.5 to 9.5 GHz Output Power: +52.3 dBm peak Power Gain: 18.5 dB nominal + 2.0° Peak to Peak Phase Stability up to 20% DF Duty Cycle:

Input VSWR: <1.5:1 Output Load VSWR <1.5:1 Input RF Overdrive +3 dB Max

Harmonics:

2Fo: <-40dBc 3Fo: <-60dBc

DC Voltage Input: +50 VDC DC Power Consumption: 50 W awg max RF to DC Efficiency: >25 % typical

Operating Temperature: 0°C to +50°C baseplate Operating Humidity: 0 to 95% non-condensing

Operating Shock & Vibration: Per Mil-Std-810F

Operating Altitude: 10,000 Ft.

RF Connectors:

RF Input Port: drop-in (or SMA Female) RF Output: drop-in SMA Female)

Intech Microwaves introduces a new Gallium Nitride (GaN) amplifier for X-Band applications. This design operates over the full 8.5-9.5 GHz frequency range and is ideal as Building Block for solid state Radar Transmitter and Range Instrumentation Systems, as a TWT replacement. The amplifier has internal DC to DC converters, DC filtering, a circuit able to guarantee pulsed drain current. The small light weight construction makes it suitable to a variety of platforms and environments. Contact our Marketing or local Representatives to discuss how IMW experts can support your next solid state amplifier requirement with its standard or custom designs for L, S, C, and X Band Pulse Radar, TWT replacement, IFF, EW Jamming, Satellite, or Medical Instrumentation.