

Solid State Power Amplifier Modules Medical Modules 2856MHz, 240 to 300 Watts

Features:

- Internal Frequency Synthesizer
- **AFC Control**
- 17dB Min Output Power Control
- **Elapsed Time Meters**
- Front Panel Power/Frequency Meter
- Applicable Uses In:
 - **Oncology Treatment**
 - **Electronic Pasteurization**
 - X-Ray Cargo Inspection
- **Ethernet Control/Status**
- Lightweight
- Rugged and Reliable



Performance Specifications

 Frequency Range: 2856MHz ±4MHz • RF Power Output (Peak): 240-300 Watts

· DC Bias: Class C Modulation Format: Pulse

· Load VSWR: 10:1 Max (Circ protected)

• 10 Minute Warm-Up Drift: 20kHz Control Voltage (AFC Tuning): ±10V • Pulse Width Capability: 3-13uS · Duty Factor: 1.0% Max PRF: 90-440Hz • Pulse Rise/Fall Time (10%-90%): 0.18uS Max

· Available Options:

Settling Time:

RS422 and 232 Interfaces

Internal Pulse Trigger

 Pulse to Pulse Width Control from 2.5-12.5uS in 250nS steps

500nS

 Control Interface: Ethernet/Front Panel

• Front Panel Controls:

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o Display Power/Freq View IP Address Elapsed Time and Date Unit ID, Mode Status

• AC Input: 85-265Vrms AC Frequency: 40-63Hz MTBF: 20,000Hrs

· Connectors:

Trigger Input: **BNC-Female** RF Output:: N-Female **RJ-45** Interface Connector:

 AC Power Connector: **Terminal Block** Operating Temperature: +15 to +50°C

Environmental: Shock/Vibration MIL-STD-

810F

Size: 19" x 16.6" x 3.5"

Weight: 12 lbs.

COMTECH PST proudly introduces its SSPA series of amplifiers which operate in the S-Band with power levels of 240 to 300 watts peak. The Class "C" amplifiers are designed for maximum power output and maximum AC to RF efficiency with minimal size. Typically used as driver amplifiers for Klystron PA's within a linear accelerator. Applications include oncology treatment, electronic and medical pasteurization, and X-Ray cargo inspection.