

Solid State Power Amplifier Module 2856MHz, 240 Watts

Model SSPA2856-240

Overview


Stellant PST proudly introduces its SSPA series of amplifiers which operate in the S-Band with power levels of 240 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.



Features

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

Performance Specifications

• Frequency Range:	2856MHz ±4MHz	• Control Interface:	Ethernet/Front Panel
• RF Power Output (Peak):	240 Watts @12uS pulse	• Front Panel Controls:	
• DC Bias:	Class C	- Display Power/Freq	
• Modulation Format:	Pulse	- View IP Address	
• Load VSWR:	10:1 Max (Circ protected)	- Elapsed Time and Date	
• 10 Minute Warm-Up Drift:	20kHz	- Unit ID, Mode Status	
• Control Voltage (AFC Tuning):	±10V	• AC Input:	85-265Vrms
• Pulse Width Capability:	3-13uS	• AC Frequency:	40-63Hz
• Duty Factor:	1.0% Max	• MTBF:	20,000Hrs
• PRF:	90-440Hz	• Connectors:	
• Pulse Rise/Fall Time (10%-90%):	0.18uS Max	- Trigger Input:	BNC-Female
• Settling Time:	500nS	• RF Output:	N-Female
• Available Options:		• Interface Connector:	RJ-45
- RS422 and 232 Interfaces		• AC Power Connector:	Terminal Block
- Internal Pulse Trigger		• Operating Temperature:	+15 to +50°C
- Pulse to Pulse Width Control from 2.5-12.5uS in 250nS steps		• Environmental:	Shock/Vibration MIL-STD 810F
		• Size:	19" x 16.6" x 3.5" 
		• Weight:	12 lbs.

Power Systems Technology (PST)

105 Baylis Road
Melville, NY 11747
T: 631-777-8900

417 Boston St.
Topsfield, MA 01983
T: 978-887-5754



www.Stellantsystems.com



For more information, contact

Sales-PST@Stellantsystems.com