

MEDICAL PRODUCTS

Series SSPA



SSPA 2997-300



SSPA2856-240

- ☐ Internal Frequency Synthesizer
- ☐ AFC Control
- ☐ 17dB Min Output Power Control
- ☐ Elapsed Time Meters
- ☐ Front Panel Power Meter

The SSPA series of amplifiers operate in S-Band with power levels up to 300 watts peak. These 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.

ELECTRICAL

Frequency Range	2856 +/- 3MHz (1)
	2998 +/- 3MHz (2)
Output Power	240 Peak Watts (1)
	300 Peak Watts (2)
Pulse Rise/Fall Time.....	0.18us Max
Load VSWR.....	10:1 Max, Circulator Protected
RF Connectors	Female Type N, Rear Panel
Pulse Trigger Connector	Female BNC, Rear Panel
Reliability	MTBF 20,000 Hours
AC Input	110 or 240Vac, 50/60Hz, 1 Phase

(1) Model SSPA2856-240 includes ETHERNET Control/Status, Digital ALC Loop, 0.1dB Output Power Control via Front Panel, ETHERNET or external resistor

(2) Model SSPA2997-300 includes 0 – 10Vdc Analog Frequency Control, Digital Status/Power Meter, 25dB Output Power Control

AVAILABLE OPTIONS

- Interfaces available: ETHERNET, RS422, RS232, CAN
- Internal Pulse Trigger
- Pulse to Pulse Power Control over 6dB range in 0.1dB steps
- Pulse to Pulse Width Control over 2.5us to 12.5us range in 250ns steps
- Other Operating Frequencies, Power Levels
- Custom Specifications

APPLICATIONS

- Oncology Treatment
- Electronic Pasteurization
- X-Ray Cargo Inspection

Model No.	Frequency (MHz)	Power Out (peak watts min)	Pulse Width (μS max)	Duty Factor (% max)	Dimensions						Weight (lbs) (kg)	
					(in)	H (cm)	(in)	W (cm)	(in)	L (cm)		
SSPA2856-240	2856 +/- 3MHz	240	3us to 13us	0.5%	3.468	8.81	19	48.26	16.6	41.16	12	5.45
SSPA2997-300	2997 +/- 3MHz	300	2.5us to 12.5us	0.5%	8.72	22.15	11.75	29.85	16.38	41.61	27	12.27

Specifications are subject to change without notice.