

SSPA-S-1kW 2400-2500 MHZ SOLID-STATE HIGH POWER AMPLIFIER (SSPA)-BLADE



Key Features

- Integral isolators protect from output mismatch
- 60dB Gain
- 50V DC operation
- DC-to-RF-conversion efficiency: 60%
- Real-time adaptive power-control
- RF power transistors have 500,000+ hour MTBF
- Distributed high-speed multi-processor control architecture
- Modes: CW, pulse
- 7/16 DIN coaxial connector output
- Water cooled design
- SS water quick connects 100 PSI rated (½" OD nylon)
- 2GPM @ 20C minimum flow rate required
- Modular design for creating multiple 1kW independent coaxial outputs or combined WR-340 waveguide
- Ambient environment temperature: 0° - 50° C



Microwave Power Output / Frequency Range

- Up to 1-kilowatt continuous power output – nominal
- Covers the entire 2400-2500 MHz ISM band
- Power set resolution: 1 watt at full power
- Rugged GaN transistors
- Harmonic suppression >50dBc
- Power control accuracy: 0.1%
- Power measurement accuracy: Forward Power 0.1% / Reflected Power 0.5%.
- Max. mismatch for full power output: 6 dB RL/3:1 VSWR
- Max. mismatch with power fold back: 4 dB RL/4.5:1 VSWR

Dimensions and Weight:

- Dimensions: 9" H x 12.5" L x 3.5" W
- Weight: 15 lbs.



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