

# NUPOWER™ MULTI-OCTAVE SOLID STATE POWER AMPLIFIER

**NuWaves**  
Engineering

## FEATURES

- 15 Watts (typ)
- 225MHz to 2.4GHz
- 0 dBm Nominal RF Input
- High Power SSPA
- GaN Technology
- Small Form Factor (3.9 cubic inches)
- High Efficiency
- Single Power Supply
- Over Voltage Protection
- Reverse Voltage Protection
- Thermal Protection
- Logic On/Off Control
- External Heatsink Available
- SMA Connectors
- PA Kit available that includes SSPA, Heatsink, and Power Cables

*If you have other requirements, NuWaves provides state-of-the-art RF design services to customize products to your needs.*

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## NW-SSPA-15W-0.225-2.4

NuWaves' NW-SSPA-15W-0.225-2.4 is a high performance solid state power amplifier delivering 15 watts across the frequency band of 225 MHz to 2.4 GHz.



The small form factor of 3.9 cubic inches brings state-of-the-art miniature power amplifier technology to the warfighter, meeting present challenges in size and weight reduction.

The NuPower™ NW-SSPA-15W-0.225-2.4 is ideal for broadband RF telemetry and military communication systems that require high reliability and high efficiency in a compact housing.

For additional information, contact NuWaves by email at [product.sales@nuwaves-ltd.com](mailto:product.sales@nuwaves-ltd.com) or by phone at (513)360-0800.

## CHARACTERISTICS

### Operational:

Frequency Range.....	225 MHz to 2.4 GHz
RF Output Power.....	15 W (typ)
RF Gain.....	43 dB
2nd Harmonic.....	-13 dBc
Noise Figure.....	3.7 dB
Power Supply.....	20-32 Vdc
Power Consumption	
High Pwr Transmit.....	2.7A max @ 28Vdc
Power Amplifier Enable.....	GND On
Input/Output VSWR.....	< 2:1

### Mechanical:

Size.....	3.0" x 2.0" x 0.65" (LxWxH)
Weight.....	3 oz

### Environmental:

Operating Temperature.....	-30 to +70 °C
Storage Temperature.....	-40 to +85 °C