



This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for SUHF band 10 MHz - 6000 MHz. The gain is 38 dB. The maximum power is 2 W. Minimum required driving power is only 1 mW. This amplifier is recommended for Space research, Mil applications etc.

Dimensions: 3.25 " X 2.5 " X 0.8 " .

2 W OUT WITH ONLY 1 mW DRIVING!

### **Applications:**

Wideband and narrowband defense and commercial communication systems

- General Purpose RF Power
- Jammers
- Radar
- Professional radio systems
- WiMAX
- Wideband amplifiers
- Cellular infrastructure

### **Product Features:**

- Frequency: DC to 6 GHz
- Linear Gain: >38 dB at 6.0 GHz
- Operating Voltage: 28 V

- Output Power (P3dB): >6 W at 6 GHz
- Lead-free and RoHS compliant
- Low thermal resistance package

### Specifications:

Sym Parameter Value	Sym Parameter Value	Sym Parameter Value
V+	Positive Supply Value <sup>2</sup>	28
I	Positive Supply Current	0.8 A
P <sub>D</sub>	Power Dissipation	10W
T <sub>CH</sub>	Operating Channel Temperature <sup>2</sup>	200°C

### Electrical Specifications:

Recommended operating conditions apply unless otherwise specified: T<sub>A</sub>= +25 °C

### RF Characteristics

Characteristics	Symbol	Units	Min.	Typ.	Max.
Linear Gain	G <sub>LIN</sub>	dB	38	15.9	
Output Power at 3 dB Gain Compression	P <sub>3dB</sub>	W	2.0	2.5	
Drain Efficiency at 3 dB Gain Compression	DE <sub>3dB</sub>	%	55	58	
Power-Added Efficiency at 3 dB Gain Compression	PAE <sub>3dB</sub>	%	50	53	
Gain at 3 dB Compression	G <sub>3dB</sub>	dB	38	13.9	
Impedance Mismatch Ruggedness	VSWR	10:1			

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