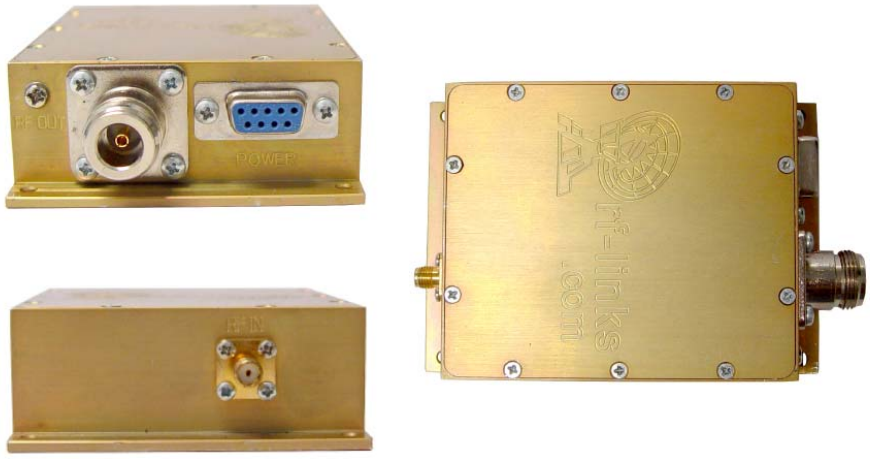
ZHM-260G/10
HIGH POWER AMPLIFIER
10MHz – 6 GHz



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 over 40 dB. The maximum power is 10 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 ".

10 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: >16 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[2]	28
I	Positive Supply Current	1.5 A
P_D	Power Dissipation	15W
T_{CH}	Operating Channel Temperature[2]	200°C

Electrical Specifications:

Recommended operating conditions apply unless otherwise specified: T_A= +25 °C

RF Characteristics

Characteristics	Symbol	Units	Min.	Typ.	Max.
Linear Gain	G_{LIN}	dB	40	15.9	
Output Power at 3 dB Gain Compression	P_{3dB}	W	7.9	10.0	
Drain Efficiency at 3 dB Gain Compression	DE_{3dB}	%	55	58	
Power-Added Efficiency at 3 dB Gain Compression	PAE_{3dB}	%	50	53	
Gain at 3 dB Compression	G_{3dB}	dB	38	39	
Impedance Mismatch Ruggedness	VSWR	10:1			

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