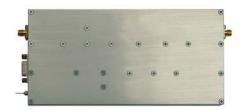


ZHM2000M

MIL Grade High Power Amplifier

This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for SUHF band 800 MHz- 2000 MHz. The gain is over 49 dB. The maximum power is 10 W. Minimum required driving power is only 1 mW. This amplifier can be used for testing or TV applications since the linearity is excellent.

- Solid-state Class AB linear design
- Compact, lightweight, rugged and reliable
- Instantaneous ultra broadband
- Suitable for CW, AM, and FM (Consult factory for other modulation type)
- 50 ohm input/output impedance
- Built-in control, monitoring and protection circuits



Electrical Specifications							
PARAMETER	SYMBOL	MIN.	TYP.	MAX	UNITS		
Operating Frequency	BW	800		2000	MHz		
Output Power CW	P _{SAT}	10	15		Watt		
Output Power @ 1dB Gain Compression	P _{1dB}	10			Watt		
Input Power for Rated P _{SAT}	P _{IN}		0		dBm		
Small Signal Gain Flatness	ΔG_{SS}			±1.5	dB		
Power Gain @ 1dB Gain Compression	G _{1dB}	40	42		dB		
Third Order Intercept Point 2-Tones, 33dBm/Tone., 100 KHz Spacing	IP3		+51		dBm		
Input Return Loss	S ₁₁			-10	dB		
Noise Figure	N_{RF}			10	dBm/MHz		
Harmonics @ P _{OUT} = 8W	Н	-20			dBc		
Spurious Signals	Spur		-70	-60	dBc		
Operating Voltage	Vdc	12	13	15	Volt		
Current consumption	I _{DD}		5	6	Amp		



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Mechanical Specifications						
PARAMETER	VALUE	UNITS	LIMITS			
Dimensions	4.8" X 7.5" X 2.8"	Inch	Max			
Weight	1.5	lb	Max			
RF Connectors In/Out	SMA Female					
DC Connectors						
Cooling	External Heatsink (Not Supplied)					