

## 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	$\Delta G_{SS}$			$\pm 1.5$	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 @ $P_{OUT} = 8W$	H	-20			dBc
Spurious Signals	Spur		-70	-60	dBc
Operating Voltage	Vdc	12	13	15	Volt
Current consumption	$I_{DD}$		5	6	Amp



**ZHM2000M**

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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)		