

ZHM 20-2500/50

MIL GRADE HIGH POWER AMPLIFIER 20 MHz TO 2.5 GHz



This amplifier operates from 20 MHz to 2500 MHz, ideal for broadband military platforms as well as commercial applications because it is robust and offers high power over a multi-decade bandwidth. It was designed for broad band jamming and communication systems platforms. It is packaged in a modular housing that is approximately 6.5" (width) by 7.5" (long) by 2.0" (height). This amplifier has a typical P3dB of 50-100 watts at room temperature.

Noise figure at room temperature is 8.0 dB typical. It offers a typical gain of 55 dB with a typical gain flatness of ± 3.0 dB. The power and gain flatness across the band is very flat for the bandwidth. Input VSWR is 2.0:1 maximum. Class AB quiescent current is ~5.0 amps typical employing a +28 Vdc supply. This PA operates from a +28 Vdc input voltage. It operates from -40C to +85C base plate.

- Gallium Nitride Broadband Power Amplifier
- Operation from 20 MHz to 2500 MHz min
- 50 to 100 Watts typical
- +28 Vdc
- 20 uSec DC Blanking Time

Freq (MHz)	Small Signal Gain (dB)	P3dB (dBm)	Current @ P3dB from a 28 Vdc Supply (Amps)
20	57.4	48.6	7.7
50	57.6	51.8	13.9
100	58.5	53.0	16.1
250	55.2	52.2	17.2
500	54.0	57.6	16.2
750	52.6	50.7	17.7
1000	51.8	50.0	17.0
1250	50.9	46.9	15.2
1500	48.2	47.2	16.2
1750	50.7	46.3	14.7
2000	53.0	45.2	18.7
2250	49.5	45.8	21.8
2500	48.4	46.3	22.2