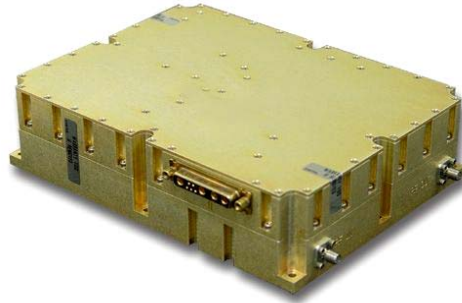


ZHM 50-2500/30

MIL GRADE HIGH POWER AMPLIFIER 500 MHz TO 2.5 GHz



This is a high power, broadband, gallium nitride (GaN) RF amplifier that operates from 0.5 to 2.5 GHz. This PA is ideal for broadband military platforms as well as commercial applications because it is robust and offers high power over a multi-octave bandwidth. It is packaged in a modular housing that is approximately 4.0" by 6.0" by 2.0". This amplifier has a typical P1dB of 20 watts at room temperature. Saturated output power across the band is typically 25 to 30 watts. Noise figure at room temperature is 6.0dB typical. This amplifier offers a typical gain of 50 dB with a typical gain flatness of ± 2.0 dB. This PA operates from 18Vdc to 36Vdc input voltage. Worst case harmonic values are -15 dBc in band at P1dB.

This amplifier operates from -40C to +85C base plate temperature.

- Gallium Nitride Broadband Power Amplifier
- Operation from 500MHz to 2.5GHz min
- Small Signal Gain 50 dB typical
- 50 dBm OIP3 typ
- 40 Watts PSat typ

Freq (MHz)	Pin @ Psat (dBm)	Psat (dBm)	Current @ Psat (Amps)	Gain @ P1dB (dB)
0.50	-1.5	47.8	5.1	52.5
0.76	-2.3	47.8	6.4	52.0
0.96	-1.0	47.1	7.2	52.7
1.15	1.6	47.0	7.5	52.9
1.34	1.5	46.1	7.5	52.6
1.54	3.5	45.6	7.0	52.4
1.73	2.5	45.9	6.9	52.0
1.92	2.0	45.5	6.5	51.7
2.11	4.2	46.1	5.8	50.8
2.31	2.5	46.4	6.9	49.7
2.50	1.5	45.9	6.8	49.3