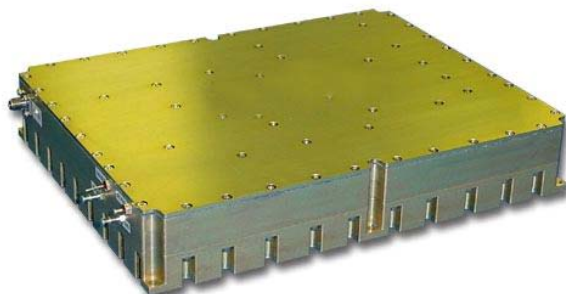


ZHM 500-3000/50 MIL GRADE HIGH POWER AMPLIFIER 500 MHz TO 3.0 GHz



This is a high power, broadband, Gallium Nitride (GaN) RF amplifier that operates from 500 MHz to 3.0 GHz, ideal for broadband military platforms as well as commercial applications. This amplifier was designed for broad band jamming and communication systems platforms. It is packaged in a modular housing that is approximately 7.0" (width) by 9.0" (long) by 1.5" (height). This amplifier has a minimum P3dB of 50 watts at room temperature. Output power is typically 70 to 100 watts across the band. Noise figure at room temperature is 10.0 dB typical. This amplifier offers a typical gain of 35 dB with a typical gain flatness of ± 2.0 dB. The power and gain flatness across the band is extremely flat for the bandwidth. Input and Output VSWR is 2.0:1 maximum. This amplifier operates from -40C to +85C base plate temperature.

- Gallium Nitride Broadband Power Amplifier
- Operation from 500 MHz to 3.0 GHz min
- Small Signal Gain 35 dB typical
- High Speed DC Blanking of 5uSecs max
- 70 to 100 Watts P3dB typical

Freq (GHz)	Small Signal Gain (dB)	P3dB (dBm)	Current @ P3dB from a 50Vdc Supply (Amps)	DC Power from +50 Vdc Supply (Watts)	Power Added Efficiency (%)
0.50	36.9	48.9	6.94	347	22.4
0.75	39.5	50.7	8.26	413	28.5
1.00	37.3	49.2	9.74	487	17.1
1.25	30.8	48.0	9.22	461	13.7
1.50	33.5	49.0	9.12	456	17.4
1.75	36.9	48.5	10.0	500	14.4
2.00	39.0	50.2	10.5	525	20.0
2.25	37.8	49.9	10.1	505	19.4
2.50	36.6	49.1	9.83	491	16.5
2.75	34.8	49.5	9.33	467	19.1
3.00	33.1	48.8	9.61	481	15.8