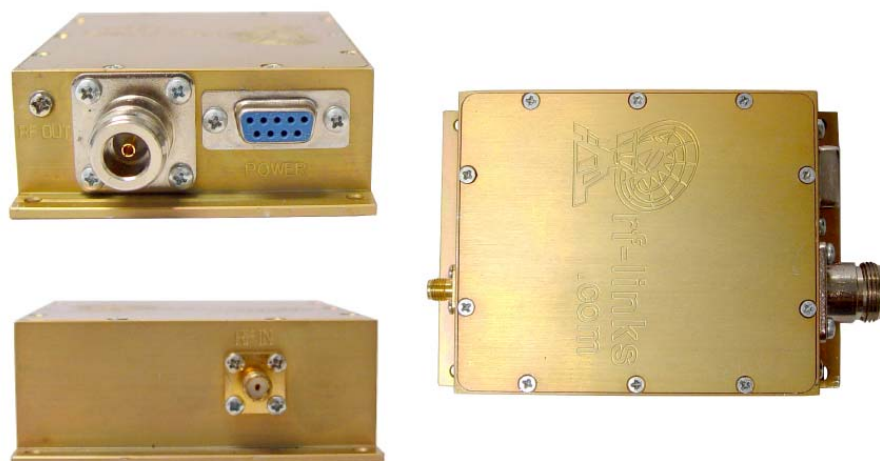




# ZHM-2450/H MIL GRADE HIGH POWER AMPLIFIER 2400 MHz



This is a medium power, broadband RF amplifier that operates from 2350 MHz to 2450 MHz, ideal for broadband military platforms as well as commercial applications because it is robust and offers high power over an extremely large bandwidth with decent power added efficiency. It was designed for broad band communication systems platforms. It is packaged in a modular housing that is approximately 3.25 " X 2.45 " X 0.9 ". This amplifier has a typical saturated output power of 12 watts at room temperature. Noise figure at room temperature is 8 dB typical. It offers a typical gain of 42 dB with a typical gain flatness of  $\pm 4.2$  dB. Power input of 0 dBm gives 12 W output power.

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## Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
	Ta= 25 °C	Ta = -55 °C to +85 °C
Frequency	2402- 2452 MHz	2302- 2452 MHz
Gain (dB)	39 dB typical	42 Min.
Power @ 1 dB Comp. (dBm)	+41	+42 Min.
Reverse Isolation (dB)	45	40 Min.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Power Vdc	+12.6 V	+18 V
Current mA	3,980 mA	4,500 mA Max.

## Maximum Ratings

Ambient Operating Temperature	-55°C to +125 °C
Storage Temperature	-.62°C to +150 °C
Case Temperature	+125 °C
DC Voltage	+14 Volts nom
Continuous RF Input Power	+5 dBm max (0 dBm)
Short Term RF Input Power	15 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.05 Watt (3 $\mu$ sec Max.)