
ZHM-2450/H

MIL GRADE HIGH POWER AMPLIFIER 2400 MHz



This is a medium power, super broadband RF amplifier that operates from 20 MHz to 6 GHz, 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 jamming and communication systems platforms. It is packaged in a modular housing that is approximately 4.1" (width) by 7.5" (long) by 1.0" (height). This amplifier has a typical saturated output power of 5-10 watts at room temperature.

Noise figure at room temperature is 8 dB typical. It offers a typical gain of 33 dB with a typical gain flatness of ± 4.0 dB. The power and gain flatness across the band is very flat for the bandwidth. Input VSWR is 2.0:1 typical. This amplifier operates from -40C to +85C base plate temperature.

Features

- High Power: +43 dBm Typical
- High Gain: 32 dB Typical
- Efficient Class AB Design
- Environmental Screening Available

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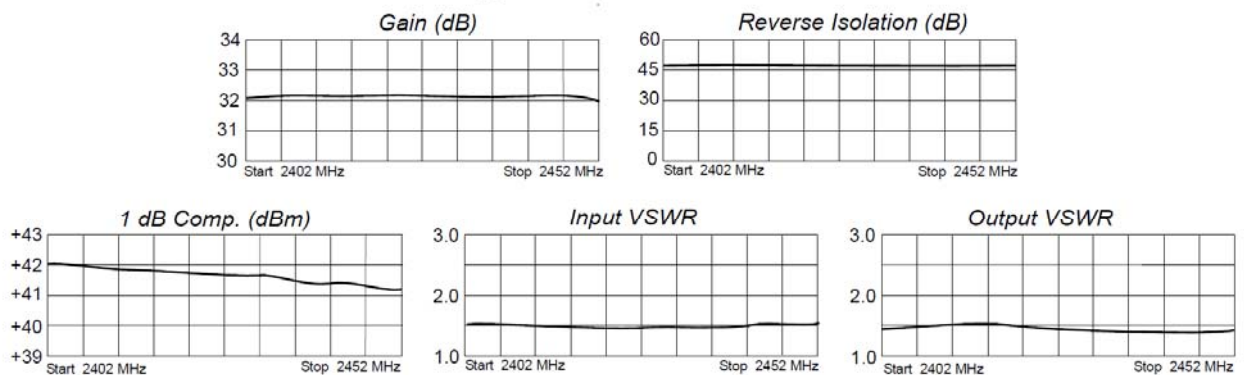
Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
	Ta= 25 °C	Ta = -55 °C to +85 °C
Frequency	2402- 2452 MHz	2302- 2452 MHz
Gain (dB)	32	33 Min.
Power @ 1 dB Comp. (dBm)	+42	+40 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	+28	+28
m A	1700	1800 Max.

Maximum Ratings

Ambient Operating Temperature	-55°C to +125 °C
Storage Temperature	.-62°C to +150 °C
Case Temperature	+125 °C
DC Voltage	+30 Volts
Continuous RF Input Power	+13 dBm max
Short Term RF Input Power	50 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 1/2 sec Max.)

Typical Performance Data



Legend — +25 °C