ZHM2425-250
HIGH POWER AMPLIFIER
2400 MHz – 2500 MHz

This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for 2400 MHz- 2500 MHz. The gain is over 30 dB. The maximum power is 250 W. Minimum required driving power is 350 mW. This amplifier is recommended for testing, labs, Space research, Mil applications etc.

Dimensions: 6.0 " X 4.0 " X 2.0 ".

Technical Specifications	
Frequency range	2400- 2500 MHz
Input power for P1dB	typ. 24 dBm, max. 28 dBm
Maximum input power	34.7 dBm
Output power P1dB	typ. 54 dBm, min. 53 dBm (CW)
	typ. 250 W, min. 200 W (CW)
Output power P3dB	min. 54.7 dBm (CW)
	min. 300 W (CW)
Output power COFDM (1)	min. 47 dBm
	min. 50 W
Gain (small signal)	typ. 30 dB
Gain flatness (small signal)	typ. +/- 1.5 dB
Harmonic rejection	typ. 40 dB @ 54 dBm
Over temperature protection	yes
IM3 (2)	typ. 26 dBc @ 54 dBm PEP
Efficiency	typ. 35 %
Input return loss (S11)	typ. 10 dB
ON voltage	switched to ground
Supply voltage	30 V DC
Quiescent current	typ. 6,5 A
Current consumption	max. 50 A
Forward detection	yes (diode detector)
VSWR of load	max. 1.8 : 1
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	SMA-female / 50 ohms

Output connector / impedance	N-female / 50 ohms
Case	milled copper, silver- / nickel-plated
Dimensions (mm)	6.0” x 4.0” x 2.0”
Weight	4500 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz