

ZHM0360-100 HIGH POWER AMPLIFIER 30 MHz – 550 MHz

This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for VHF- UHF band 30 MHz- 550 MHz. The gain is over 49 dB. The maximum power is 100 W. Minimum required driving power is only 1 mW - 5 mW. This amplifier is recommended for testing, labs, Space research, Mil applications etc.

Dimensions: 7.56 " X 3.15 " X 0.87 ".



Technical Specifications	
Frequency range	30..550 MHz
Input power for P3dB	min. 3 dBm
Maximum input power	+8 dBm
Output power P3dB	typ. 50 dBm, min. 49 dBm
	typ. 100 W, min. 80 W (CW)
Output power COFDM (1)	typ. 40 dBm, min. 38.4 dBm
	typ. 10 W, min. 7 W
Gain (small signal)	typ. 49 dB, min. 47 dB
Gain flatness (small signal)	typ. +/- 1.5 dB (ALC not aktive)
Harmonic rejection	min. 18 dB @ 47 dBm
IM3 (2)	typ. 25 dBc @ 47 dBm PEP
Efficiency	typ. 30 % @ 47 dBm (CW)
Input return loss (S11)	min. 10 dB
ON voltage	+9 ... 14 V DC
Supply voltage	+28 V DC
Quiescent current	typ. 4.4 A
Current consumption @ P3dB	max. 8.5 A
Operating case temp. range	-20 ... +55 °C
VSWR of load	max. 1.8 : 1
Input connector / impedance	SMA-female / 50 ohms
Output connector / impedance	N-female / 50 ohms
Case	Metal-aluminum
Dimensions (in)	7.56" x 3.15" x 0.87"
Weight	580 g (typ.)
(1)	Measured with QAM 64, single carrier, EVM: 2%
(2)	Measured 2-tone, frequency spacing: 1 MHz