

# ZHM0722-150 HIGH POWER AMPLIFIER 698 MHz – 2200 MHz

This is a high power broadband amplifier for labs or testing purposes. This amplifier is excellent for VHF- UHF band 700 MHz- 2200 MHz. The gain is over 66 dB. The maximum power is 150 W. Minimum required driving power is only -5 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	700 - 2200 MHz
Input power for P1dB	max. -5 dBm
Maximum input power	+10 dBm
Output power P3dB	typ. 51.7 dBm, min. 51.1 dBm (CW) typ. 150 W, min. 130 W (CW)
Gain (small signal)	typ. 66, min. 60 dB
Gain flatness (small signal)	typ. +/- 3 dB
IM3 (1)	typ. 22 dBc @ 51.7 dBm PEP
Efficiency	typ. 25 % @ 51.7 dBm PEP
Input return loss (S11)	min. 10 dB
ON voltage	+5 V DC
Supply voltage	+40 ... 43 V DC
Quiescent current	max. 4 A
Current consumption	max. 20 A
Forward detection	yes (diode detector)
Reflected power detection	yes (diode detector)
Operating case temp. range	-20 ... +55 °C
Input connector / impedance	N-female / 50 ohms
Output connector / impedance	N-female / 50 ohms
Case	milled aluminium
Dimensions (mm)	330 x 188 x 25
Weight	1200 g (typ.)
(1)	Measured 2-tone, frequency spacing: 1 MHz