



ZH-0114/200 HIGH POWER AMPLIFIER VHF BAND 1 MHz – 30 MHz 200 W RF POWER



This extreme rugged HIGH GAIN power amplifier has been designed to cover the entire HF band from 1 to 30 MHz, offering unsurpassed solution for HF power amplifier designs. Designed for CW applications, the ZH-0114/200 is equipped with the latest generation of LDMOS super rugged power devices for extreme reliability required by military tactical and heavy duty civil RF equipment.

(Blowing fan needed.)

Size: 280 mm x 105 mm x 86 mm

Technical Specification Summary

Frequency Range	1-30 MHz	Typ.Gain	55dB
Typ.Efficiency	>35% (at 200W CW)	Operation Temp. Range	-10 to +55C
		MaxVSWR	65:1 (at max 200W CW)
Supply Voltage	48V (50V)	Working Class	AB

Key Features and functions

- Temperature protection circuit (Automatic switch off at 80oC carrier temperature)
- High gain dual stage RF line-up
- Extreme rugged device for Heavy duty operation
- Compact dimensions
- Dynamic Bias by jumper settings

Electrical Specifications:

Frequency Output	1		30	MHz	Full coverage without tuning
Power (CW) Power		180	200	W	
Input	-2	-4		dBm	{ 150W CW Out)
Gain V Supply Drain	53	55		dB	
Current		48	50	Vdc	{ 150W CW Out)
Input return loss	-24	-30		dB	
Carrier Temp.	-10		+75	c	

ABSOLUTE MAXIMUM RATINGS

Output Power	200	W	Separate bias current setting	
Input Power	3	dBm		
Operating Voltage	50	Vdc		
Bias Current	1+1	A		
Drain Current	10	A		
VSWR	65:1			
Operating Temperature	-10 +55	°C		
Storage Temp.	-20 +80	°C		
Base Plate temp.	80	°C		Automatic switch-off at 80Co

Graphs and Charts

