

# 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.Efficiency >35% (at 200W CW)

Supply Voltage 48V (50V)

Typ.Gain Operation Temp. Range MaxVSWR Working Class 55dB -10 to +55C 65:1 (at max 200W CW) 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

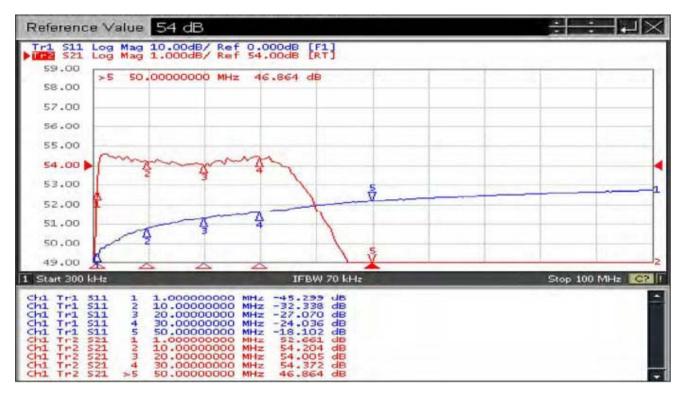
# **Electrical Specifications:**

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	
		48	50	Vdc	
Current		8.5	9	A	
Input return loss	-24	-30		dB	[150W CW Out]
Carrier Temp.	-10		+75	с	

### ABSOLUTE MAXIMUM RATINGS

Output Power	200	W	
Input Power	3	dBm	
Operating Voltage	50	Vdc	
Bias Current	1+1	A	Separate bias current setting
Drain Current	10	A	
VSWR	65:1		
Operating Temperature	-10 +55	0C	
Storage Temp.	-20 +80	0C	
Base Plate temp.	80	0C	Automatic switch-off at 80Co

#### Graphs and Charts



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