



ZH-4047/7-1

HIGH POWER AMPLIFIER

7 W from 400 MHz-470 MHz

This is a tested high quality professional 7 W RF amplifier that requires minimum RF driving input of 1 mW for the maximum of 7 W RF power output. It is broadband in 400 MHz- 470 MHz and doesn't require any tuning or adjusting. Power supply is 12 V/ 1.6 A. Gain is 45 dB. N female connectors Input / Output 50 ohms impedance. Class of operation AB. And it is made for special Military applications.

Dimensions: 6" X 4" X 2"



Technical Specifications	
Operating Frequencies:	400 MHz- 470 MHz
Operating class:	Linear AB
DC Voltage:	12 V
RF power:	7 W
Input power:	1 mW, max. 5 mW
Minimum required voltage:	10 V
Battery power:	12 V - 14 V
Video distortion:	N/A
Video Format:	N/A
Current Consumption:	1.8 A max / 12 V
Antenna:	N/A
Antenna Connector:	BNC, N on request
Impedance:	50 ohms
Temperature Range:	-40 +75* C
Dimensions:	6" X 4 " X 2"
Weight:	300 grams

AMPLIFIER ZH4047/7

Frequency MHz	GAIN, dB		Maximum Power, dBm		Dynamic Range		DC POWER	
	$f_L - f_U$	Min.	Max. Flatness	Max power.	Input (no damage)	NF Db Typ.	IP3 dBm Typ.	Cur-rent (mA)
400-470	44.5	±0.80	+34.8	+10	5.6	46	2.2	12.6

Lw = low range(f_L to $f_U/2$) U=upper range($f_U/2$ to f_U)

Driving input 1 mW

FREQ (MHz)	Gain (dB)	Directivity (dB)	VSWR		Current consumption	Pout mW (@1dB COMPR)
	12.6 V	12V	IN	OUT		
400	46	10.5	1.29	1.30	1,98 A	7200
420	47	11.1	1.63	1.65	2.08 A	7350
430	47	11.6	1.66	1.69	2.19 A	8244
440	46.5	11.3	1.38	1.42	1.98 A	8100
450	46.8	11.4	1.16	1.19	1.97 A	7899
460	46	11.9	1.20	1.20	2.2 A	7988
470	46	13.4	1.16	1.31	2.23 A	8200
475	46	13.1	1.17	1.23	2.09 A	7988
480	46	13.7	1.29	1.23	2.15 A	7458