



---

# ZH-4047/7

## 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 10 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 26 dB. N female connectors Input / Output 50 ohms impedance. Class of operation AB.

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:	10 mW, max. 50 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	Input (no damage)	NF Db Typ.	IP3 dBm Typ.	Cur- rent(m A)
400-470	26	±0.80	+34.8	+15	3.7	46	1.9	12
Lw = low range( $f_L$ to $f_U/2$ ) U=upper range( $f_U/2$ to $f_U$ )								

FREQ (MHz)	Gain (dB)	Directivity (dB)	VSWR		N.F.(dB)	Pout mW (@1dB COMPR
	12 V	12V	IN	OUT		
400	26	10.5	1.29	1.30	4.08	7200
420	27	11.1	1.63	1.65	3.99	7350
430	27	11.6	1.66	1.69	3.99	7244
440	26.5	11.3	1.38	1.42	3.82	7800
450	26.8	11.4	1.16	1.19	3.95	7899
460	26	11.9	1.20	1.20	3.95	7788
470	26	13.4	1.16	1.31	3.84	8200
475	26	13.1	1.17	1.23	3.92	7988
480	26	13.7	1.29	1.23	3.86	7458