



ZH-4047/60

HIGH POWER AMPLIFIER

60 W from 400 MHz-470 MHz

This is a tested high quality professional 60 W RF amplifier that requires minimum driving input of 50 mW for the maximum of 60 W RF power output. It is broadband in 400 MHz- 4760 MHz and doesn't require any tuning or adjusting. Power supply is 12 V/ 6.8 A. Gain 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: | 60 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: | 6.8 A / 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 ZH4047/60 | | | | | | | | |
|--|----------|---------------|--------------------|-------------------|---------------|--------------|--------------|----------|
| 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. | Current(m A) | Volt(V.) |
| 400-470 | 26 | ±0.80 | +48.6 | +16 | 4.0 | 46 | 6.8 | 12.6 |
| 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 W (@1dB COMPR) |
|------------|-----------|------------------|------|------|----------|---------------------|
| | 12.6 V | 12V | IN | OUT | | |
| 400 | 26 | 10.5 | 1.29 | 1.30 | 4.2 | 62.5 |
| 420 | 27 | 11.1 | 1.63 | 1.65 | 4.5 | 63 |
| 430 | 27 | 11.6 | 1.66 | 1.69 | 4.4 | 65 |
| 440 | 26 | 11.3 | 1.38 | 1.42 | 4.3 | 64 |
| 450 | 26 | 11.4 | 1.16 | 1.19 | 4.3 | 66 |
| 460 | 26 | 11.9 | 1.20 | 1.20 | 4.3 | 65.5 |
| 470 | 26 | 13.4 | 1.16 | 1.31 | 4.3 | 63 |
| 475 | 26 | 13.1 | 1.17 | 1.23 | 4.4 | 65 |
| 480 | 26 | 13.7 | 1.29 | 1.23 | 4.4 | 64 |