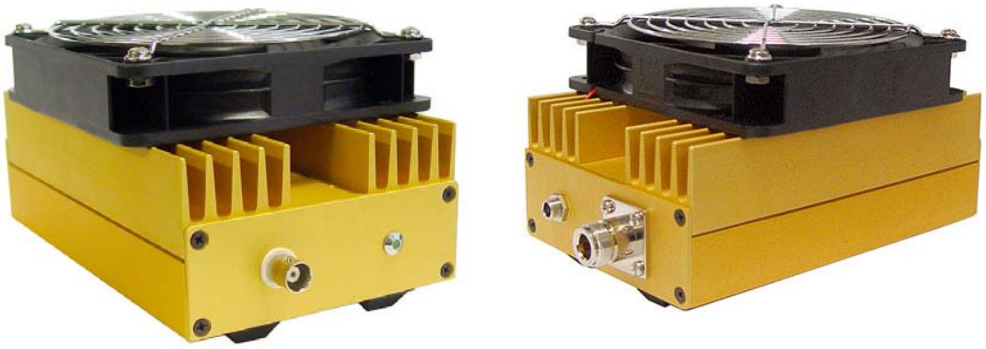
ZH-8896HM
HIGH POWER AMPLIFIER
20 W from 880 MHz-960 MHz



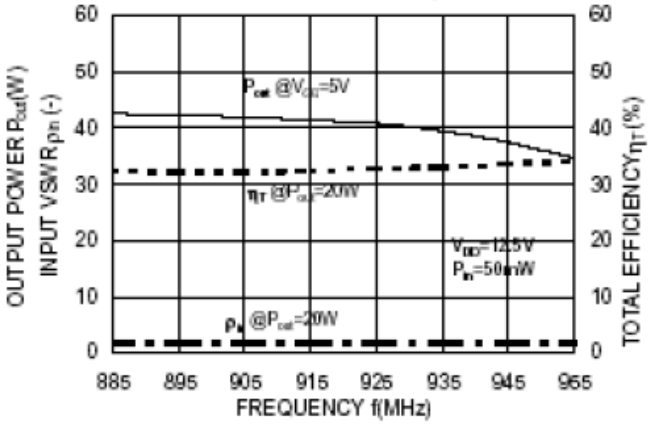
This is a tested high quality professional 20 W RF amplifier that requires minimum driving input of -5 dBm for the maximum of 20 W RF power output. Driving Input of 0 dBm will give 30W RF Output power. It is broadband in 880 MHz- 960 MHz and doesn't require any tuning or adjusting. Power supply is 12 V/ 6.8 A max. Gain 26 dB. BNC / N female connectors Input / Output 50 ohms impedance. Class of operation AB.

Dimensions: 6" X 4" X3"

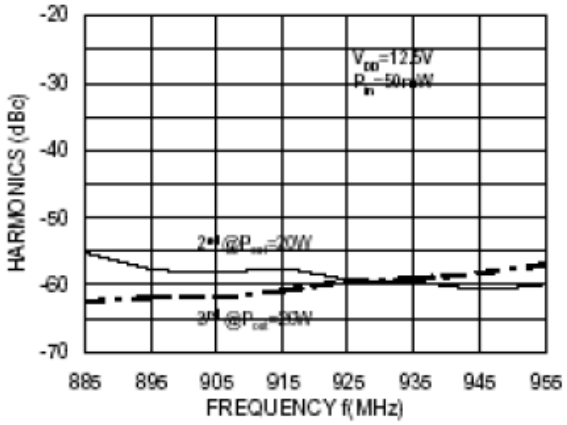
Technical Specifications	
Operating Frequencies:	880 MHz- 960 MHz (860-975 MHz)
Operating class:	Linear AB
DC Voltage:	12.6 V
RF power:	MIN 20 W (-4.5 dBm) 35 W (0 dBm)
Input power:	MIN -5 dBm MAX 5 dBm
Minimum required voltage:	12 V
Battery power:	12 V – 14.5 V
Video distortion:	N/A
Video Format:	N/A
Current Consumption:	6.8 A / 12.6 V (30 W RF output power)
Antenna:	N/A
Antenna Connector:	Input BNC, N Output
Impedance:	50 ohms
Temperature Range:	-40 +75* C
Dimensions:	6" X 4 " X 3"
Weight:	500 grams

TYPICAL PERFORMANCE (T_{case}=+25°C, Z_G=Z_L=50Ω, unless otherwise specified)

OUTPUT POWER, TOTAL EFFICIENCY, and INPUT VSWR versus FREQUENCY



2nd, 3rd HARMONICS versus FREQUENCY



ELECTRICAL CHARACTERISTICS (T_{case}=+25°C, Z_G=Z_L=50Ω, unless otherwise specified)

PARAMETER	CONDITIONS	MIN	MAX	UNIT
Frequency Range		880	960	MHz
Output Power	V_{DD}=12.5V P_{in}=50mW	18	22	W
Total Efficiency	25			%
2nd Harmonic	V_{DD}=12.5V P_{in}=50mW	-30		dBc
Stability	100			%
Load VSWR Tolerance	Load VSWR=20:1 With max. power out		No degradation or destroy	