



ZH-1214H

HIGH POWER AMPLIFIER

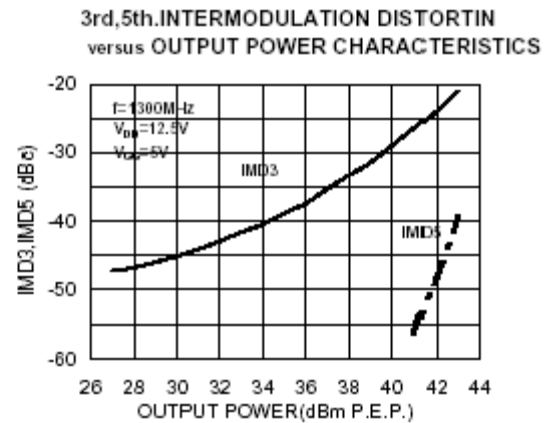
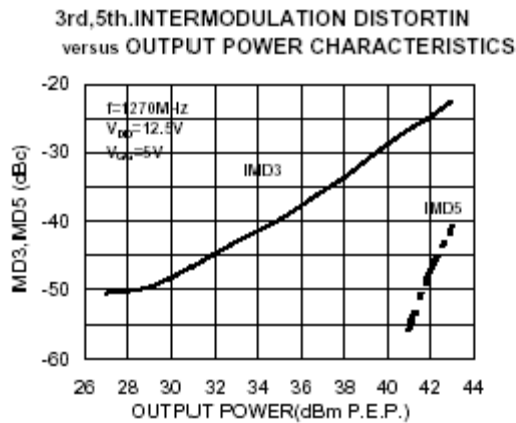
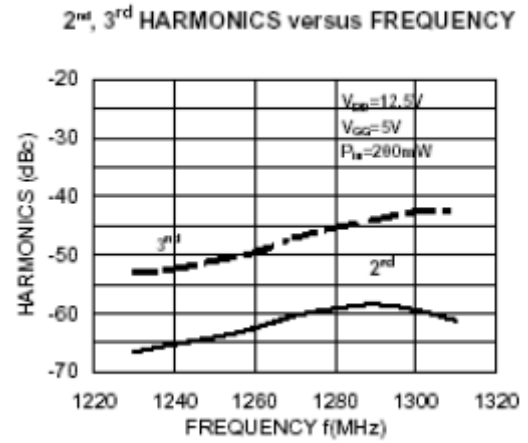
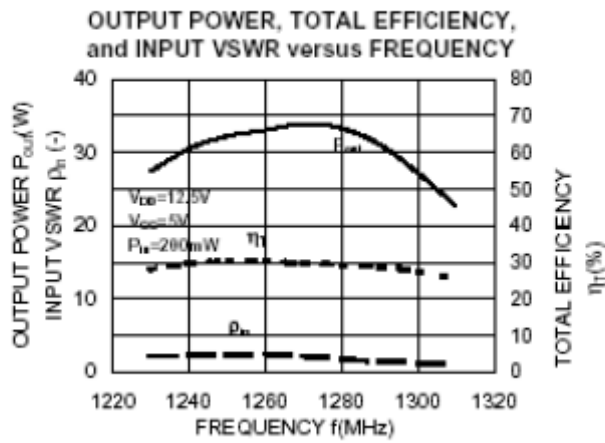
18 W from 1.2 GHz-1.4 GHz

This is an excellent high power linear RF amplifier for 1.2 GHz band. It is a perfect solution for FM TV excitors, labs or experiments. It has 18 W RF power with driving input of 200 mW. Required power supply is 12 V / 8 A. Gain 20 dB. It comes with N female connectors.



Technical Specifications	
Operating Frequencies:	1200 MHz- 1400 MHz
Operating class:	LINEAR AB
DC Voltage:	12 V
RF power:	20 W MAX.
Input power:	200 mW
Minimum required voltage:	12 V
Battery power:	12 V – 14 V
Video distortion:	2%
Video Format:	N/A
Current Consumption:	8 A
Gain:	20 dB
Antenna Connector:	N TYPE
Impedance:	50 OHMS
Temperature Range:	-25+70 *C
Dimensions:	6" X 4 " X 2"
Weight:	300 grams

TYPICAL PERFORMANCE ($T_{case}=+25^{\circ}C$, $Z_G=Z_L=50\Omega$, unless otherwise specified)



ELECTRICAL CHARACTERISTICS ($T_{case}=+25^{\circ}C$, $Z_G=Z_L=50\Omega$, unless otherwise specified)

PARAMETER	CONDITIONS	MIN	MAX	UNIT
Frequency Range		1200	1450	MHz
Output Power	$V_{DD}=12.5V$ $P_{in}=200mW$	18	20	W
Total Efficiency	25			%
2 nd Harmonic	$V_{DD}=12.5V$ $P_{in}=200mW$	-25		dBc
Stability	100			%
Load VSWR Tolerance	Load VSWR=20:1 With max. power out		No degradation or destroy	

SCHEMATIC DIAGRAM
ZH-1214/H

