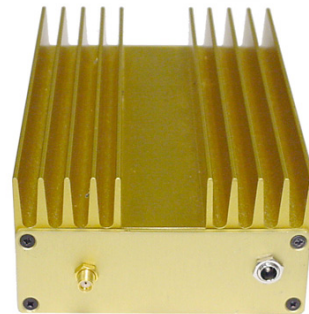




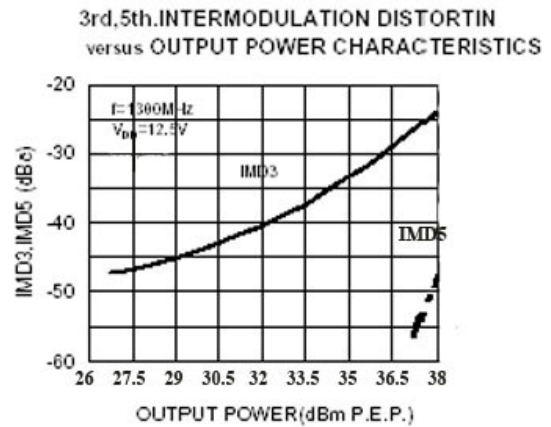
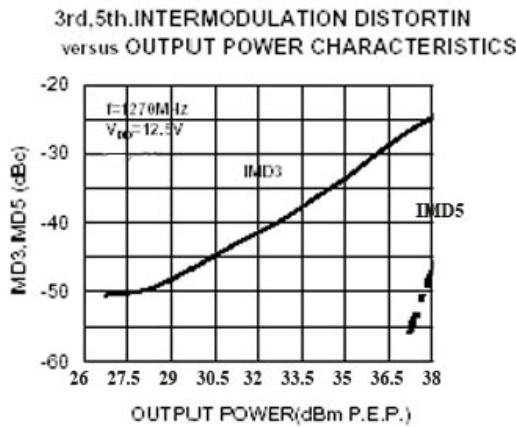
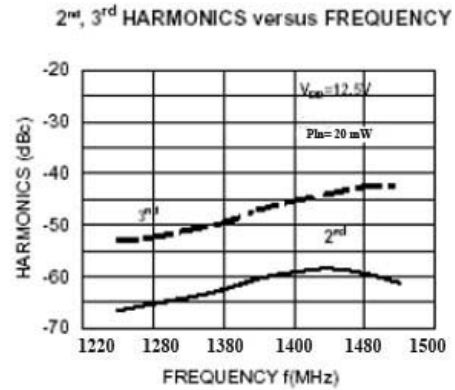
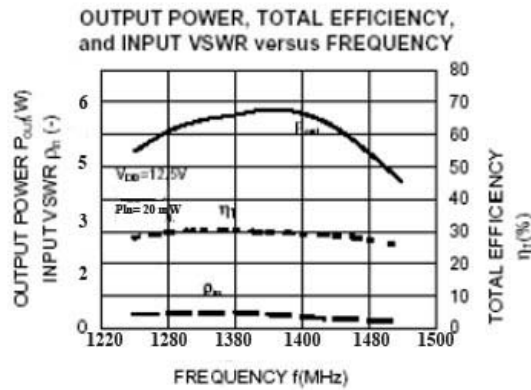
## ZH-1214 HIGH POWER AMPLIFIER 5W FROM 1.2 GHz- 1.4 GHz

This is an excellent linear RF amplifier for 1.2 GHz band. It is a perfect solution for FM TV exciters, labs or experiments. Model ZH-1214 has 5 W RF power with driving input of only 10 mW. Required power supply is 12 V / 1.8 A. Gain 29 dB.



Technical Specifications	
Operating Frequency:	1.2-1.4 GHz
Operating class:	Linear AB
DC voltage:	12V
RF power	5 W
Input power:	10 mW
Minimum required voltage:	12V
Battery power:	12-14 V
Video distortion:	1 %
Video format:	N/A
Current consumption:	1.8A
Gain:	29 dB
Antenna connector:	SMA
Impedance:	50 ohm
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	1500	MHz
Output Power	$V_{DD}=12.5V$ $P_{In}=20\text{ mW}$	4.5	5.5	W
Total Efficiency	26			%
2 <sup>nd</sup> Harmonic	$V_{DD}=12.5V$ $P_{In}=20\text{ mW}$	-30		dBc
Stability	100			%
Load VSWR Tolerance	Load VSWR=20:1 With max. power out		No degradation or destroy	

SCHEMATIC DIAGRAM  
ZH-1214/H

