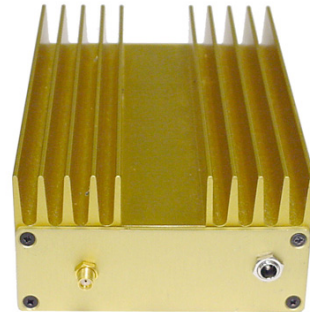




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ZH-1214 HIGH POWER AMPLIFIER 5W FROM 1.2 GHz- 1.4 GHz

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.

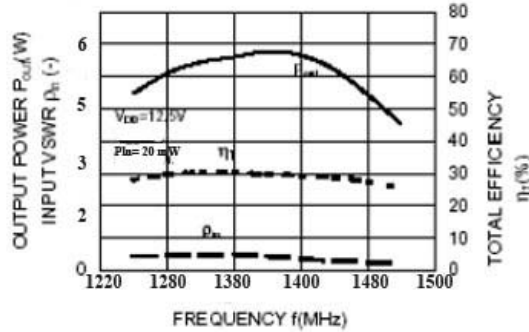


Technical Specifications	
Operating Frequency:	1.2-1.4 GHz
Operating class:	Linear AB
DC voltage:	12V
RF power	5 W
Input power:	10 mW
Minimum required voltage:	12V
Battery power:	12-14 V
Video distortion:	1 %
Video format:	N/A
Current consumption:	1.8A
Gain:	29 dB
Antenna connector:	SMA
Impedance:	50 ohm
Temperature range:	-25 + 70 °C
Dimensions:	6" x 4" x 2"
Weight:	300 grams

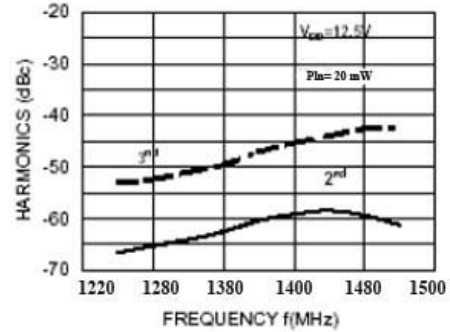
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TYPICAL PERFORMANCE ($T_{case}=+25^{\circ}C$, $Z_G=Z_L=50\Omega$, unless otherwise specified)

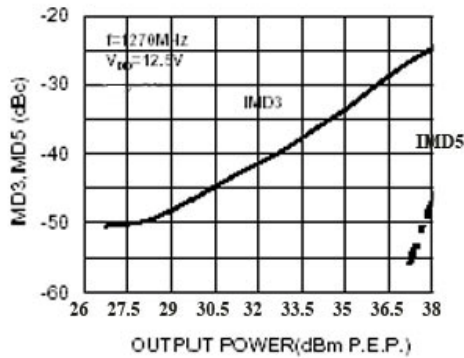
OUTPUT POWER, TOTAL EFFICIENCY, and INPUT VSWR versus FREQUENCY



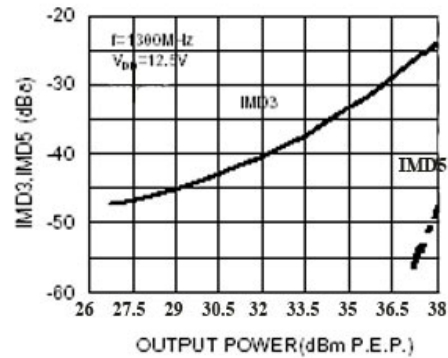
2nd, 3rd HARMONICS versus FREQUENCY



3rd,5th.INTERMODULATION DISTORTIN versus OUTPUT POWER CHARACTERISTICS



3rd,5th.INTERMODULATION DISTORTIN versus OUTPUT POWER CHARACTERISTICS



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			%
2nd 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

