

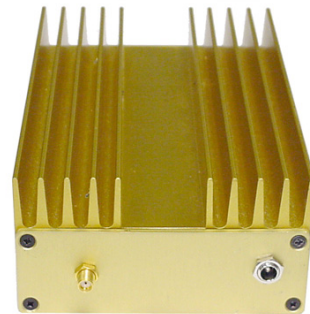


ZH-1214/M

HIGH POWER AMPLIFIER

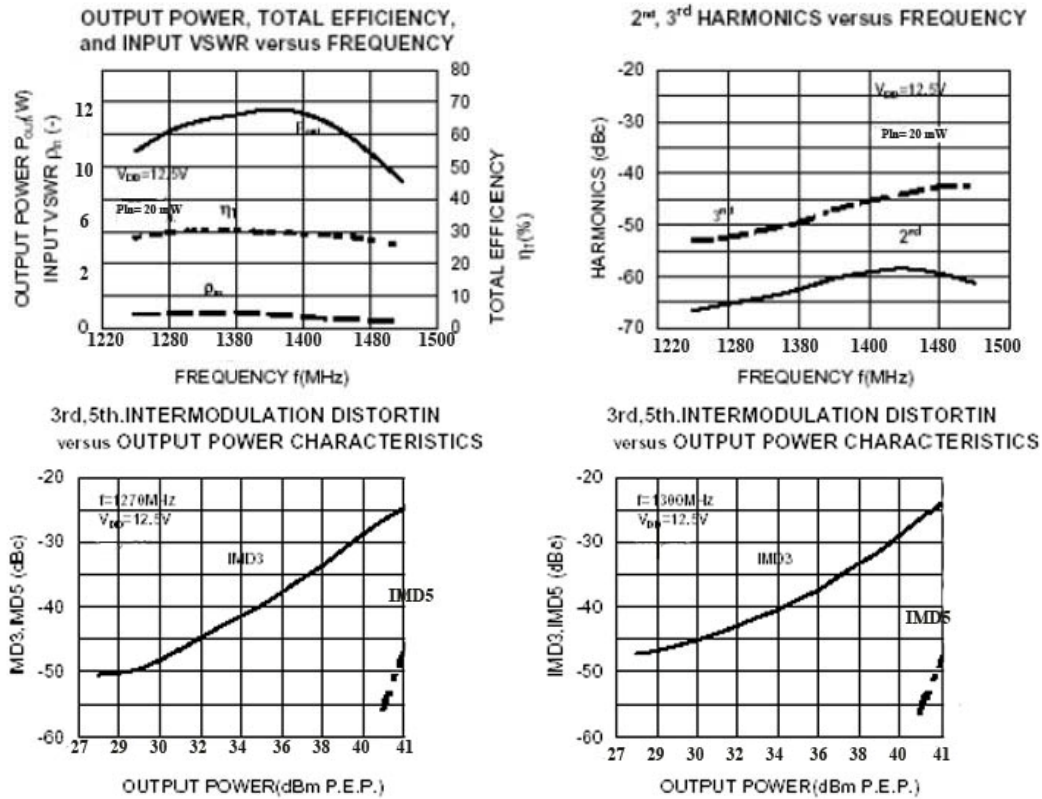
10 W FROM 1.2 GHz- 1.4 GHz

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 M has 10W RF power with driving input of only 20 mW. Required power supply is 12 V / 2.8 A. Gain is 30 dB.



Technical Specifications	
Operating Frequency:	1.2-1.4 GHz
Operating class:	Linear AB
DC voltage:	12 V
RF power	10 W
Input power:	20 mW
Minimum required voltage:	12 V
Battery power:	12-14 V
Video distortion:	1 %
Video format:	N/A
Current consumption:	2.8A
Gain:	30 dB
Antenna connector:	SMA
Impedance:	50 ohm
Temperature range:	-25 + 70 °C
Dimensions:	6" x 4" x 2"
Weight:	600 grams

TYPICAL PERFORMANCE ($T_{case}=+25^{\circ}C$, $Z_0=Z_L=50\Omega$, unless otherwise specified)



ELECTRICAL CHARACTERISTICS ($T_{case}=+25^{\circ}C$, $Z_0=Z_L=50\Omega$, unless otherwise specified)

PARAMETER	CONDITIONS	MIN	MAX	UNIT
Frequency Range		1200	1500	MHz
Output Power	$V_{DD}=12.5V$ $P_{In}=20\text{ mW}$	9.6	10.5	W
Total Efficiency	26			%
2 nd Harmonic	$V_{DD}=12.5V$ $P_{In}=20\text{ mW}$	-28		dBc
Stability	100			%
Load VSWR Tolerance	Load VSWR=20:1 With max. power out		No degradation or destroy	