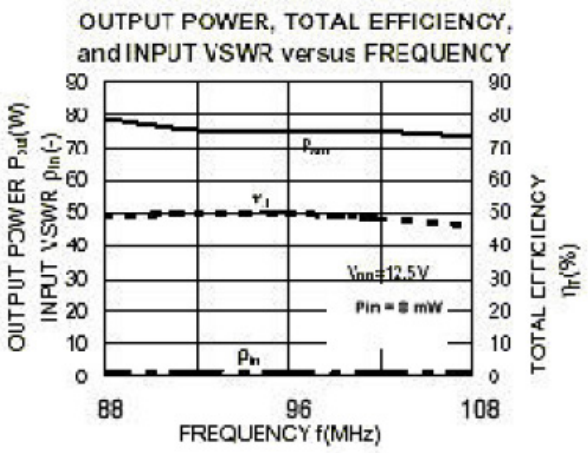
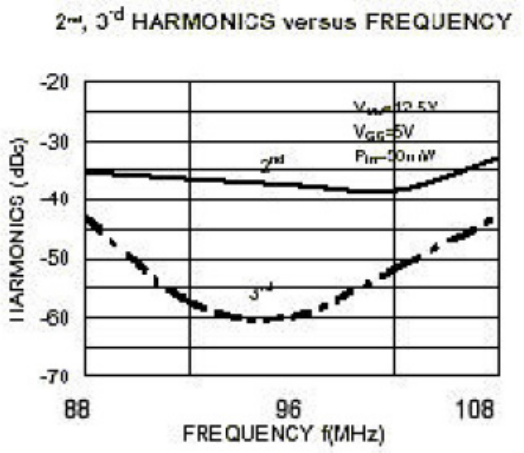
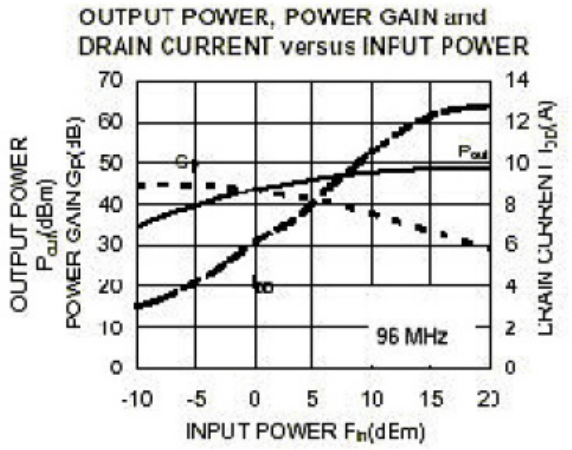
ZH-8810
HIGH POWER AMPLIFIER
5 W from 88 MHz-108 MHz

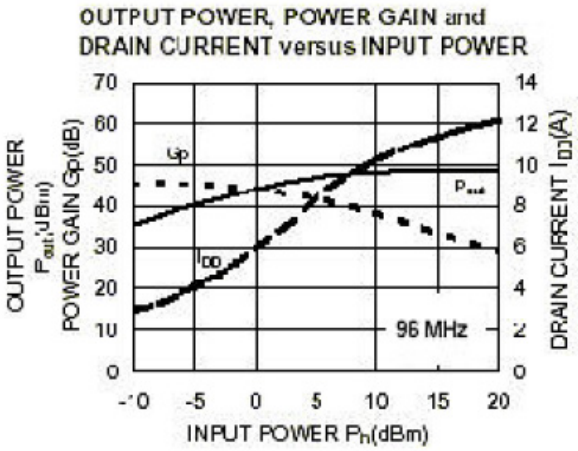
This is a tested high quality professional 5 W amplifier that requires minimum driving input of 3 m W for the maximum of 6 W RF power output. It is broadband in 88 MHz- 108 MHz and doesn't require any tuning or adjusting. Power supply is **12 V/ 1.6 A**. **Gain 26 dB.** SMA connectors Input / Output 50 ohms impedance. Class of operation AB. Dimensions: **6" X 4" X 2"**

Technical Specifications	
Operating Frequency:	88 MHz-108 MHz
Operating class:	Linear
DC Voltage:	12 V
RF power:	5 W
Input power:	3 m W
Minimum required voltage:	10 V
Battery power:	12.6 V - 17 V
Current Consumption:	120 mA / 12 V
Antenna:	N/A
Antenna Connector:	SMA
Impedance:	50 ohms
Gain:	26 dB / 2.4 GHz
Temperature Range:	-40 +75* C
Dimensions:	6" x 4" x 2"
Weight:	600 grams

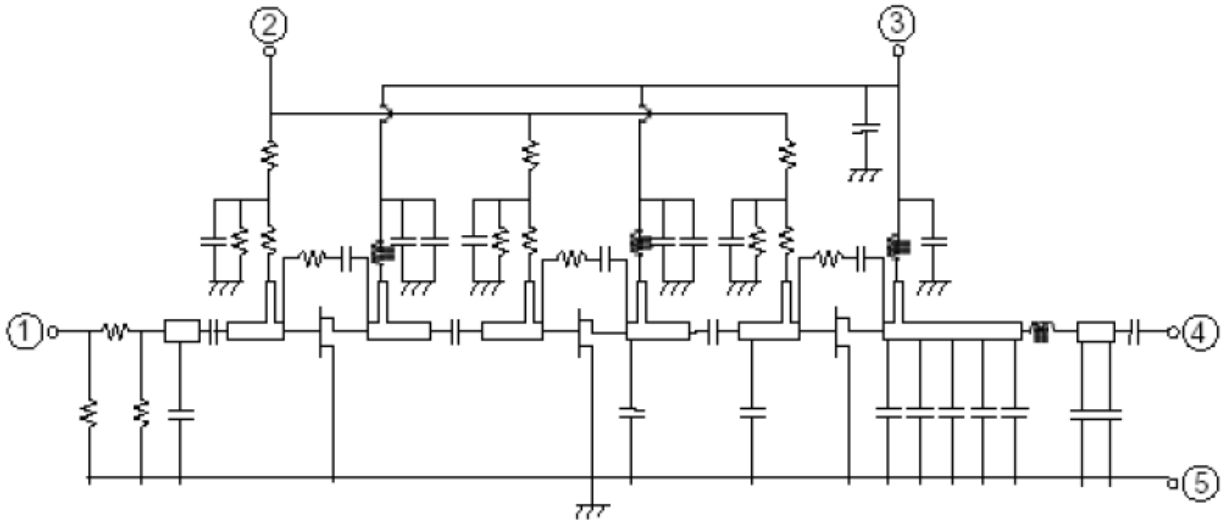








OUTPUT POWER, POWER GAIN and
DRAIN CURRENT versus INPUT POWER



SCHEMATIC DIAGRAM

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
f	Frequency Range		88		108	MHz
P_{out}	Output Power	V_{DD}=12.5V V_{GG}=5V P_{in}= 8 mW			50	W
η_T	Total Efficiency		40			%
$2f_o$	2nd Harmonic				-25	dBc
ρ_{in}	Input VSWR				3:1	—
I_{GG}	Gate Current				2	mA
—	Stability	V_{DD}=10.0-15.2V, P_{in}= mW, P_{out}< W (V_{GG} control), Load VSWR=3:1	No parasitic oscillation			—
—	Load VSWR Tolerance	V_{DD}=15.2V, P_{in}= 8 mW, Pout: 50 W Load VSWR=8:1	No degradation or destroy			—