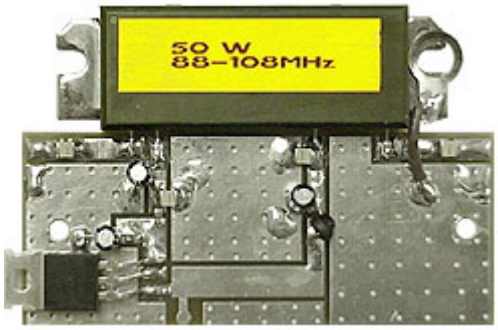
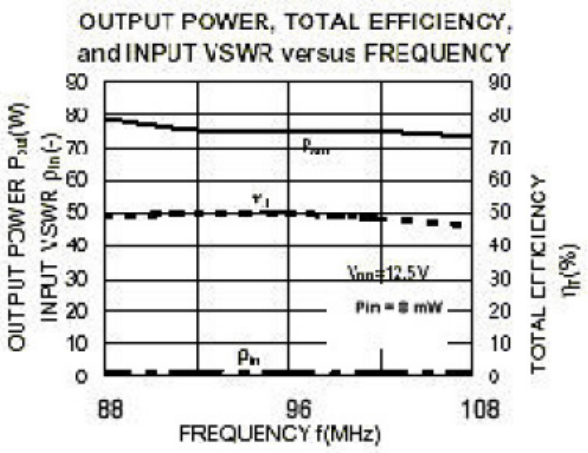
ZH-8850
HIGH POWER AMPLIFIER
55 W from 88 MHz-108 MHz

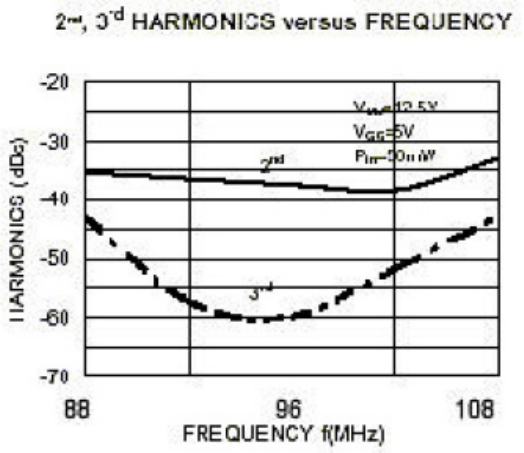
This is a tested high quality professional FM amplifier for 88-108 MHz This amplifier requires minimum driving input of 8 m W for the maximum of 50 W RF power output. It is broadband in 88 MHz- 108 MHz and doesn't require any tuning or adjusting. Power supply is 12.6 V - 17 V/ 10 A. Gain 29 dB. Input / Output 50 ohms impedance. Class of operation AB.

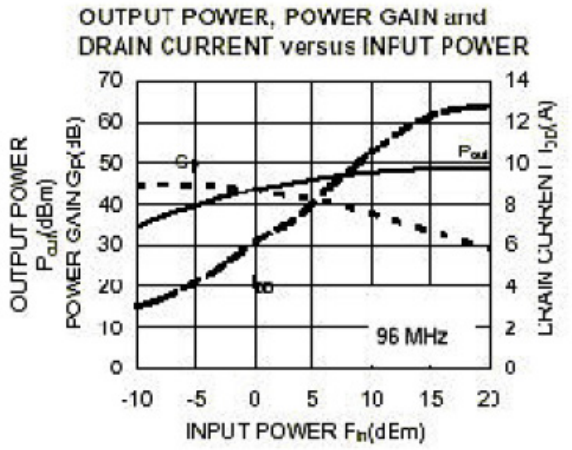
Dimensions: 2.5" X 3"

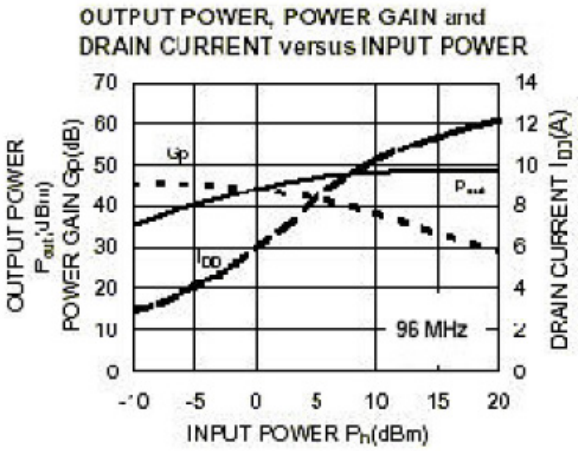


Technical Specifications	
Operating Frequency:	88 MHz-108 MHz
Operating class:	Linear
DC Voltage:	12 V
RF power:	50 W / 100 MHz
Input power:	10 mW
Minimum required voltage:	10 V
Battery power:	12.6 V - 17 V
Current Consumption:	10 A / 12 V
Antenna:	N/A
Antenna Connector:	N/A
Impedance:	50 ohms
Gain:	29 dB / 100 MHz
Temperature Range:	-40 +75* C
Dimensions:	2.5" x 3.0"
Weight:	55 grams

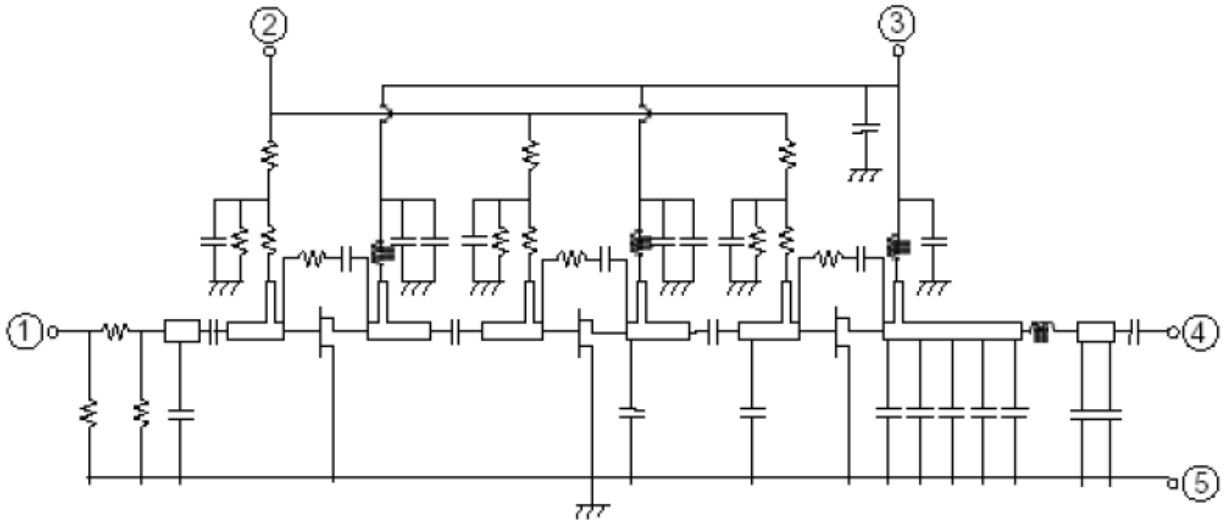








OUTPUT POWER, POWER GAIN and
DRAIN CURRENT versus INPUT POWER



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			—