

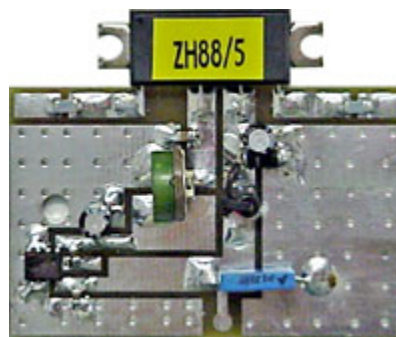


ZH-88/5

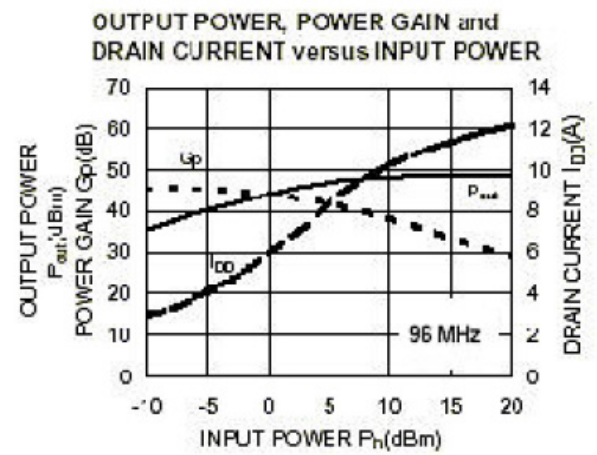
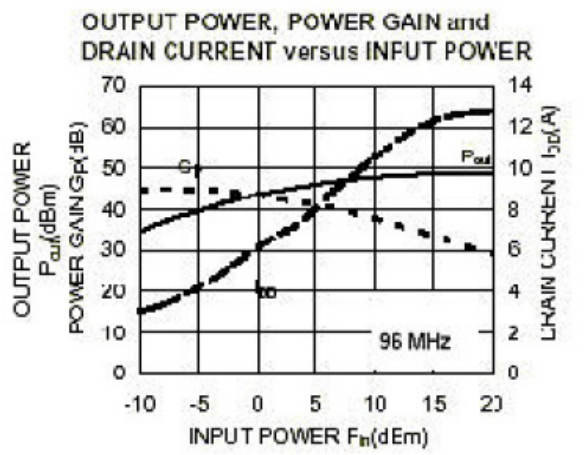
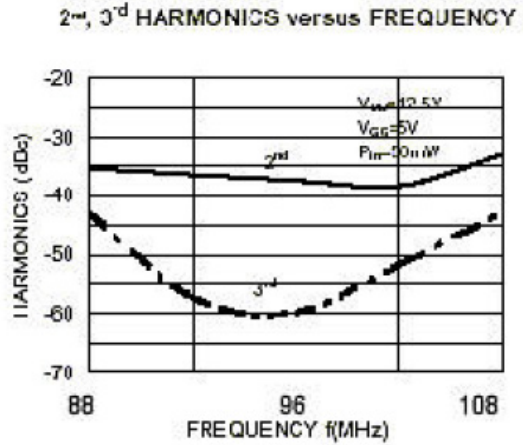
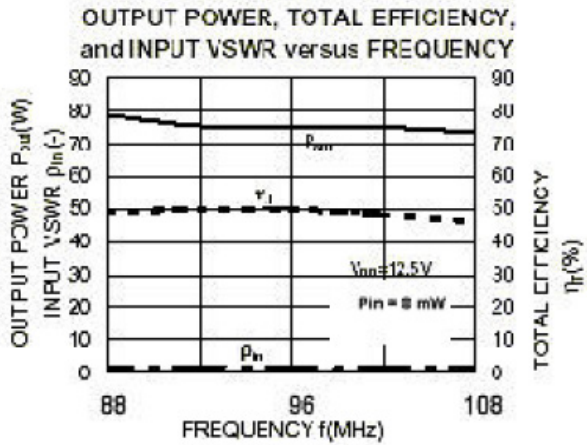
FM AMPLIFIER

5 W from 88 MHz-108 MHz

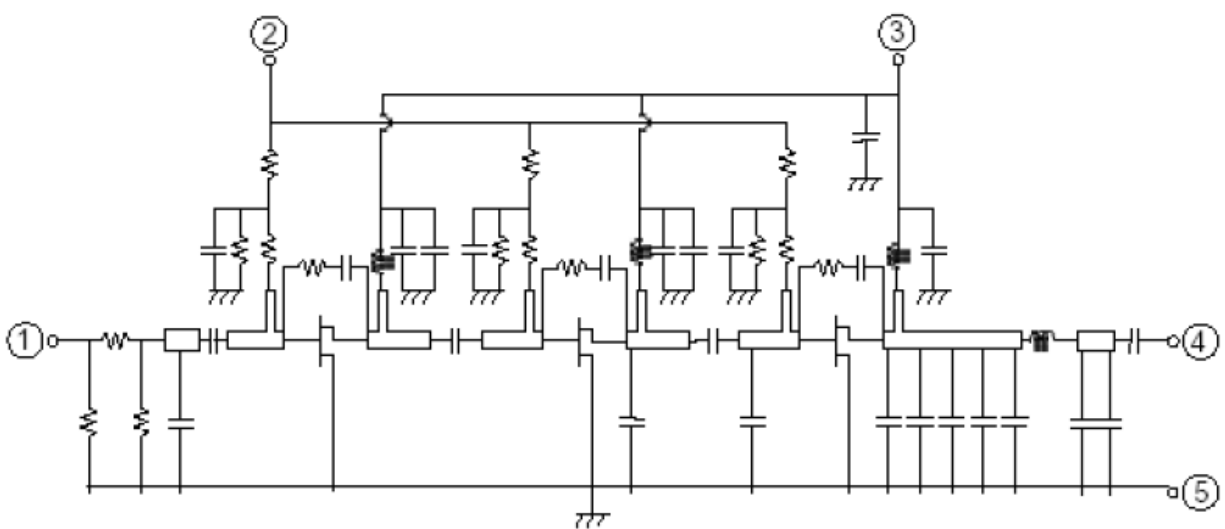
This is a tested high quality professional **FM** amplifier for 88-108 MHz This amplifier requires minimum driving input of **3 m W** for the maximum of **5 W** RF power output. It is broadband in **88 MHz- 108 MHz** and doesn't require any tuning or adjusting. Power supply is **12.6 V - 1 A**. **Gain is 29 dB**. Input / Output 50 ohms impedance. Class of operation AB.
Dimensions: **2" X 1.5"**



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 – 1 A
Current Consumption:	120 mA / 12 V
Antenna:	N/A
Antenna Connector:	SMA
Impedance:	50 ohms
Gain:	25 dB / 2.4 GHz
Temperature Range:	-40 +75* C
Dimensions:	2" x 1.5"
Weight:	5.5 grams



OUTPUT POWER, POWER GAIN and DRAIN CURRENT versus INPUT POWER



SCHEMATIC DIAGRAM

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

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