MK 484

Model: MK-484 AM Radio I.C. (Japan Chip) Quality Guarantee.

Monolithic IC F501 / One Chip Radio Receiver

F501 is a monolithic integrated Circuit designed for use as one chip AM-Radio.

High Sensitivity and high guality AM-Radio is possible with a few octside components.

As special fetures of the circuit include low guiescent current at low supply voltage Operation; the device is particulary useful in Watch Radio and Lighter width Radio.

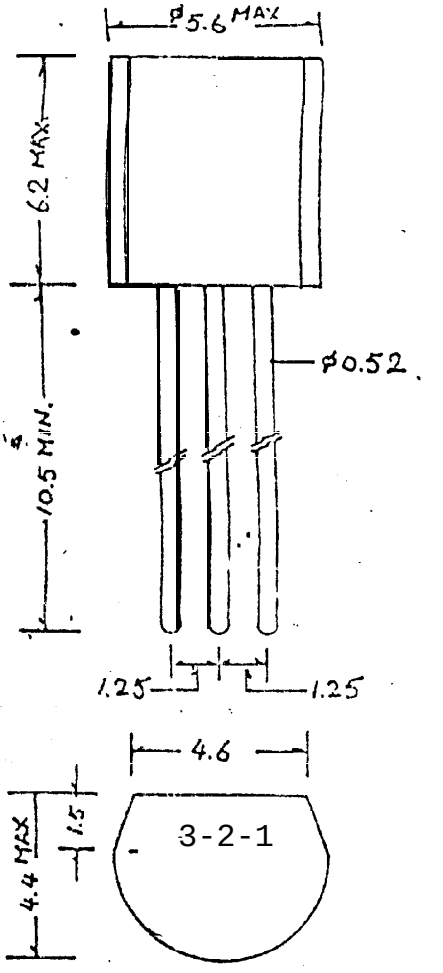
FEATURES

1. Stably operates with 1.1V
2. **Low Drain Current**
3. Small and light weight(T092)
4. Wide AGC Ranging

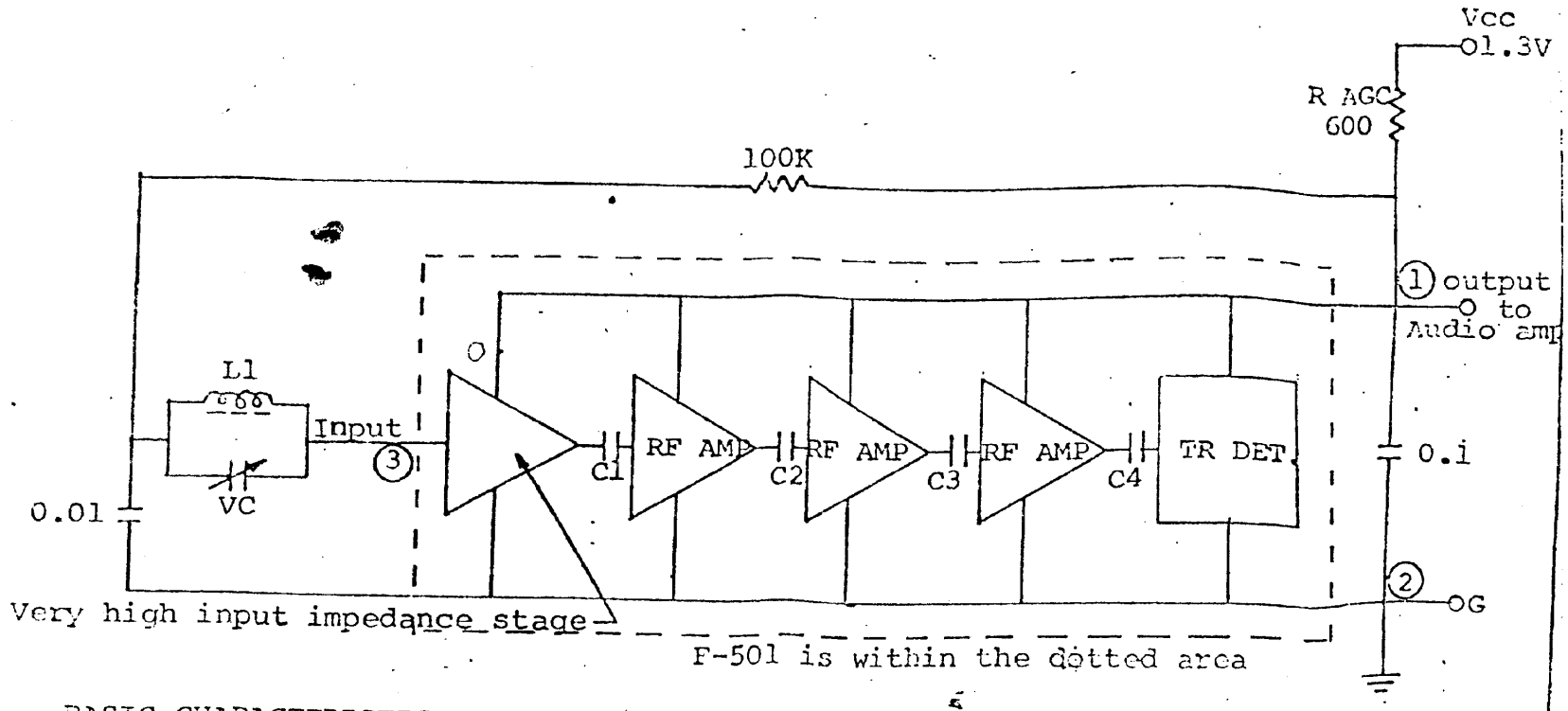
APPLICATIONS

Watch Radio
Lighter with Radio
Wireless AM-System

DIMENSIONS:



GND in OUT



BASIC CHARACTERISTIC :

1. Vcc : above 1.1V
2. Output Voltage : 1.0 - 1.5V
3. Input Current : 0.3mA typ.
4. f : 300K - 3MKZ
5. Input Resistance : 4MΩ typ.

MAXIMUM RATINGS :

Operating temperature	SYMBOL	RATING	UNIT
Operating Temperature	Topr	-30 - +80	°C
Storage Temperature	Tstg	-40 - +125	°C
Supply Voltage	Vcc	1.5	V

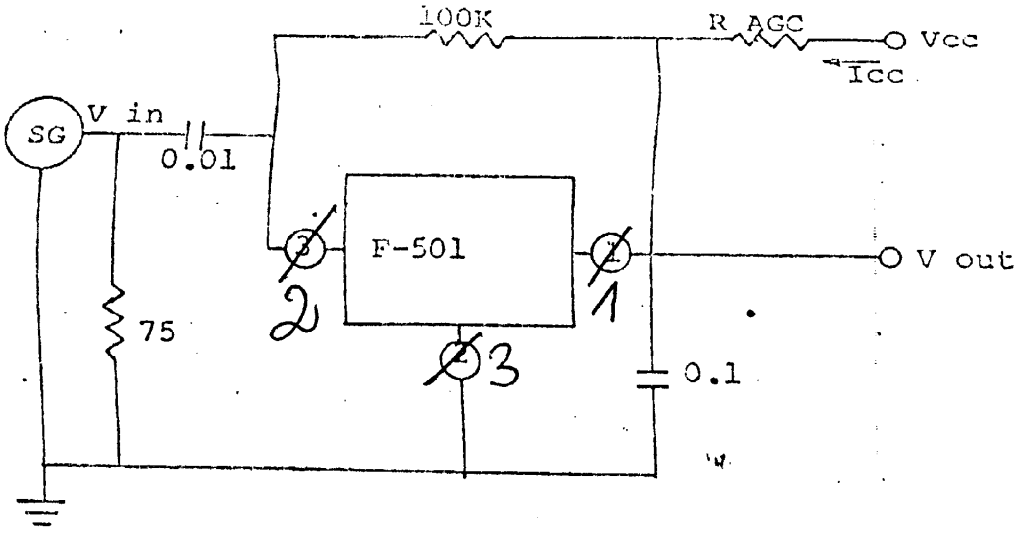
ELECTRICAL CHARACTERISTICS

Ta = 25°C

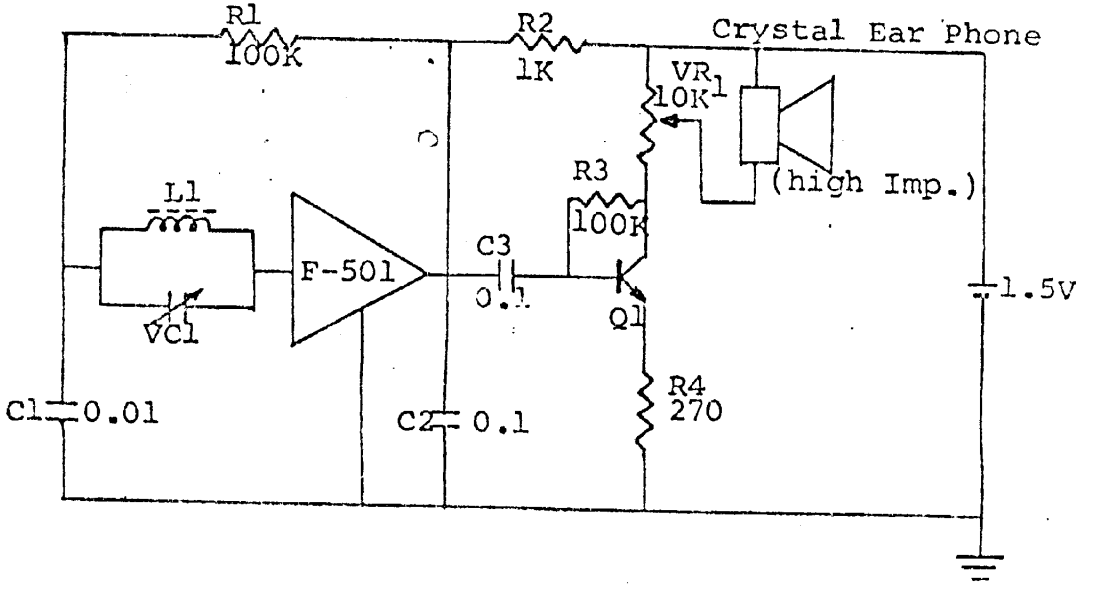
ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE	Vcc	1.1	1.4	1.8	V
OUTPUT VOLTAGE (at operation)	Vout * 1	0.8		1.5	mV
DRAIN CURRENT	Icc		0.3	0.283	mA
COVER RANGE	f_R	150		3,000	KHZ
INPUT RESISTANCE	Zin		4		MΩ
TOTAL HARMONIC DISTORTION			4		%
AGC RANGE	AGC	30			dB
POWER GAIN	Gp		70		dB

Vcc = 1.4V, Ragc = 1.5KΩ, =1,000KHZ
Modulation 1,000HZ 40%, Vin = 1mV(r.m.s.)
(1) RAGC = 100 - 1.5KΩ

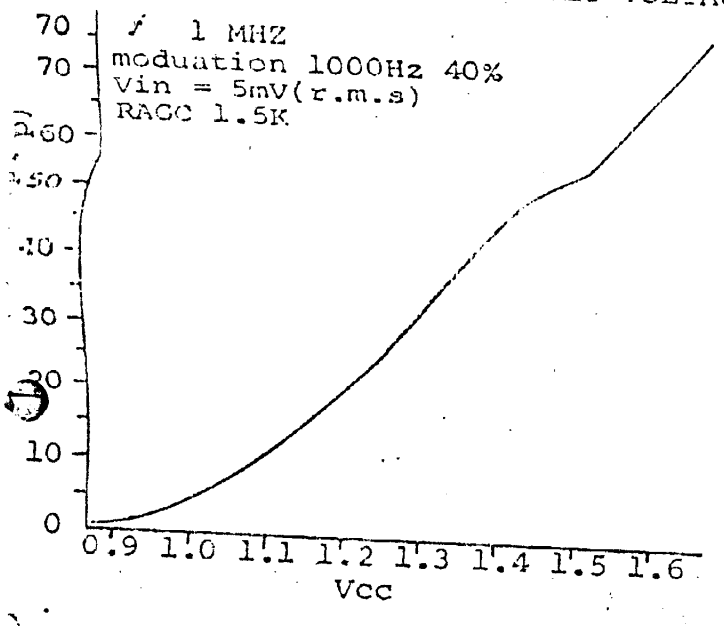
MEASURING CIRCUIT



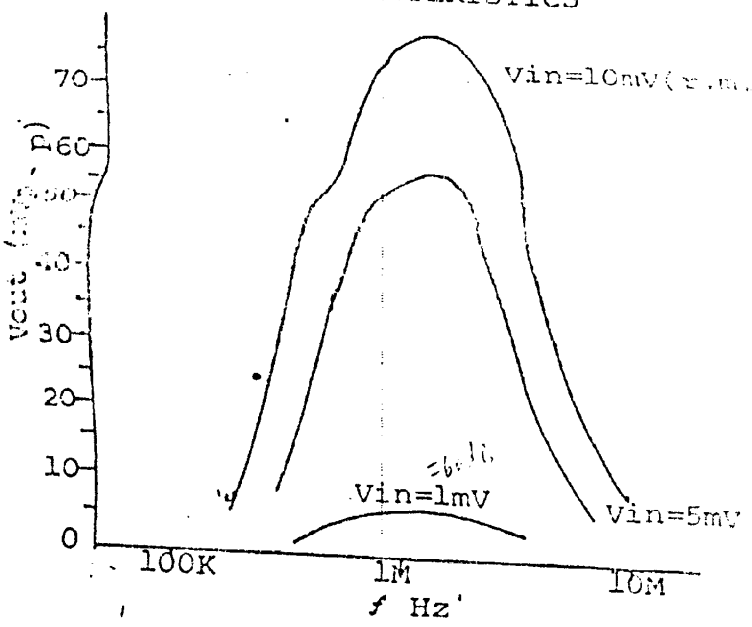
APPLICATION



GAIN VARIATION WITH SUPPLY VOLTAGE



BANDWIDTH CHARACTERISTICS



TEST CONDITIONS =

V_{IN} = 60 dB

f = 1000 KHz

MODULATION = 40%

V_{CC} = 1.4V

RAGC = 1.5K Ω

GAIN CHARACTERISTICS