

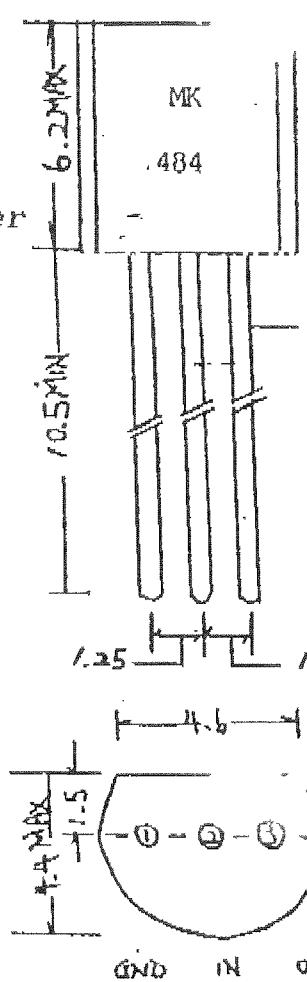
High Sensitivity and high quality AM Radio is possible with a few outside components. As special fetures of the circuit include low supply voltage operation, the device is particularly useful in Watch Radio and lighter with Radio.

### FEATURES

1. Stably operates with 1.1v
2. Low Drain Current
3. Small and light weight (TO92)
4. Wide AGC Ranging

### APPLICATIONS

Watch Radio  
 Lighter with Radio  
 Wireless AM-System



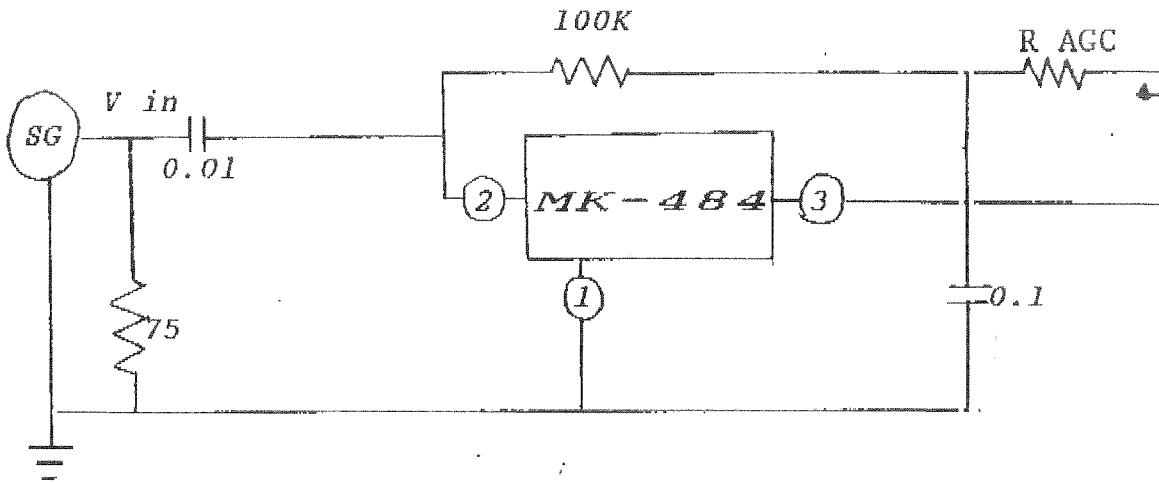
### ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYP.	MAX.	UNIT
SUPPLY VOLTAGE	V <sub>CC</sub>	1.1	1.4	1.8	V
OUTPUT VOLTAGE (at operation)	V <sub>OUT</sub> * 1	0.8		1.5	mV
DRAIN CURRENT	I <sub>CC</sub>		0.3		mA
COVER RANGE	f <sub>R</sub>	150		3,000	KHz
INPUT RESISTANCE	Z <sub>in</sub>		4		MΩ
TOTAL HARMONIC DISTORTION			4		
AGC RANGE	AGC	30			dB
POWER GAIN*	GP		70		dB

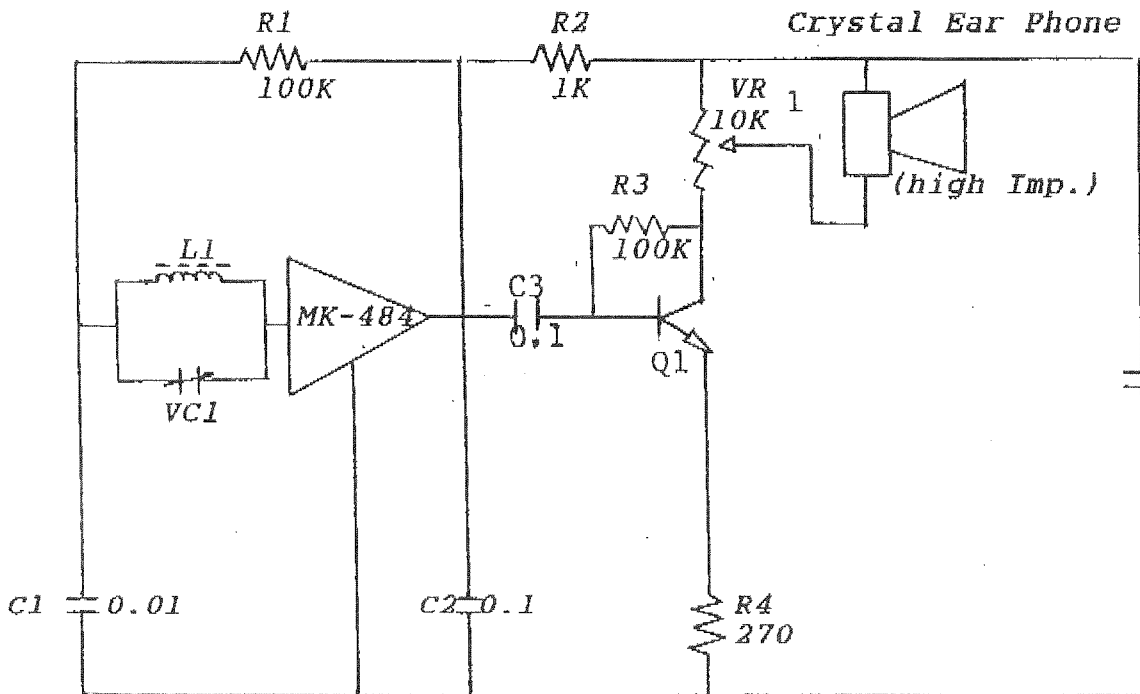
V<sub>CC</sub> = 1.4V, R<sub>AGC</sub> = 1.5KΩ, f<sub>c</sub> = 1,000KHZ  
 Modulation 1,000HZ 40%, V<sub>in</sub> - 1mV (r.m.s.)

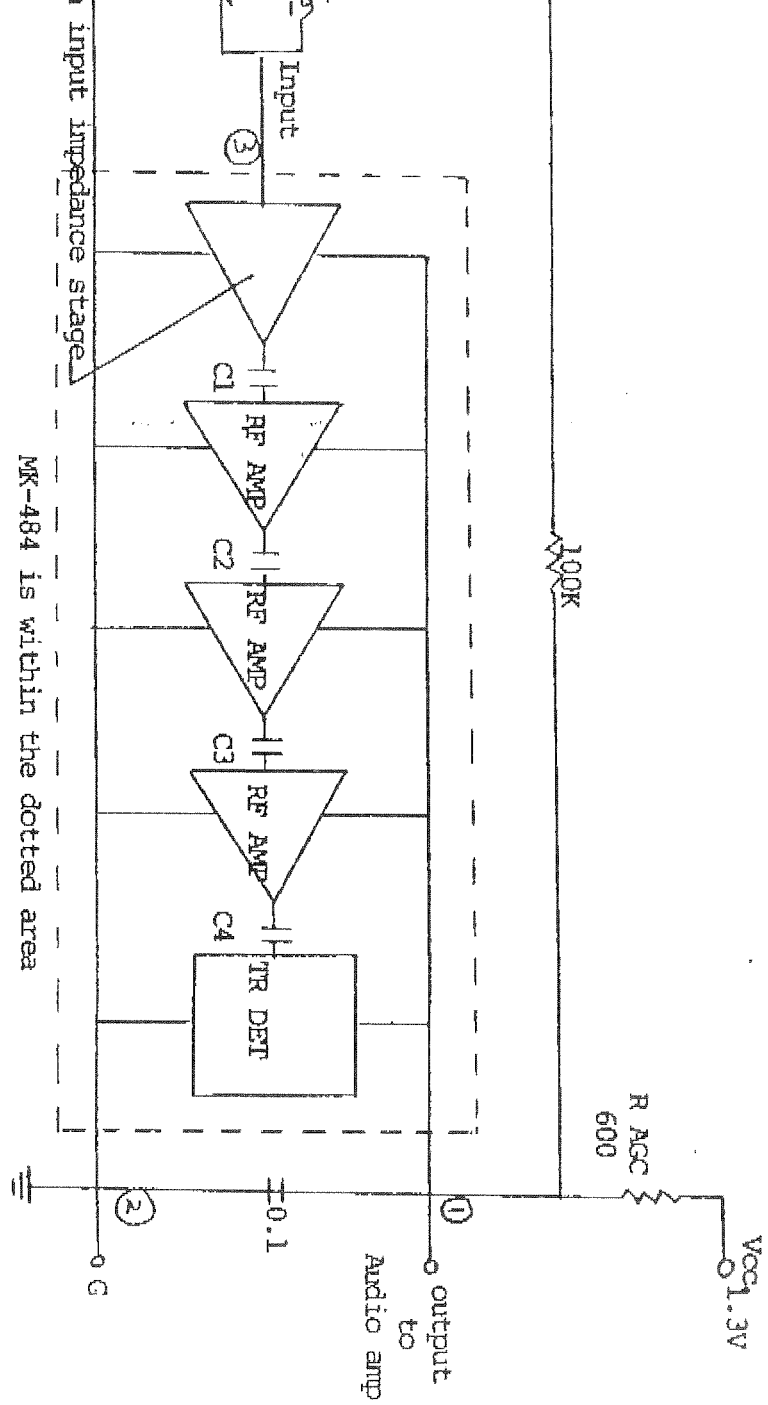
(1) R<sub>AGC</sub> = 100 - 1.5KΩ

MEASURING CIRCUIT  
FOR HIGH IMPEDANCE CIRCUIT



APPLICATION





MK-484 is within the dotted area

CHARACTERISTIC :

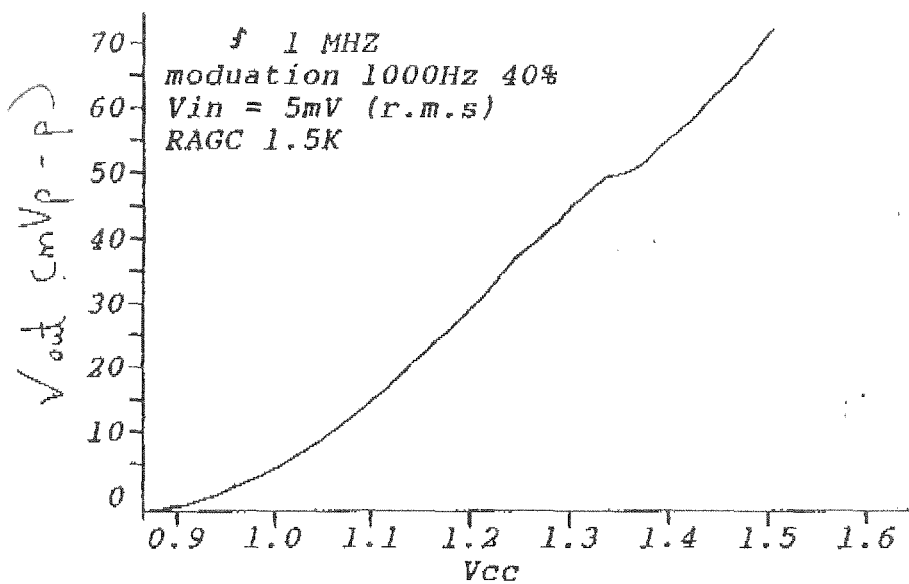
- 1. : above 1.1v
- 2. Input Voltage : 1.0 - 1.5v
- 3. Input Current : 0.3mA typ.

- 4.  $f$  : 300K - 3MKZ
- 5. Input Resistance: 4M $\Omega$  typ.

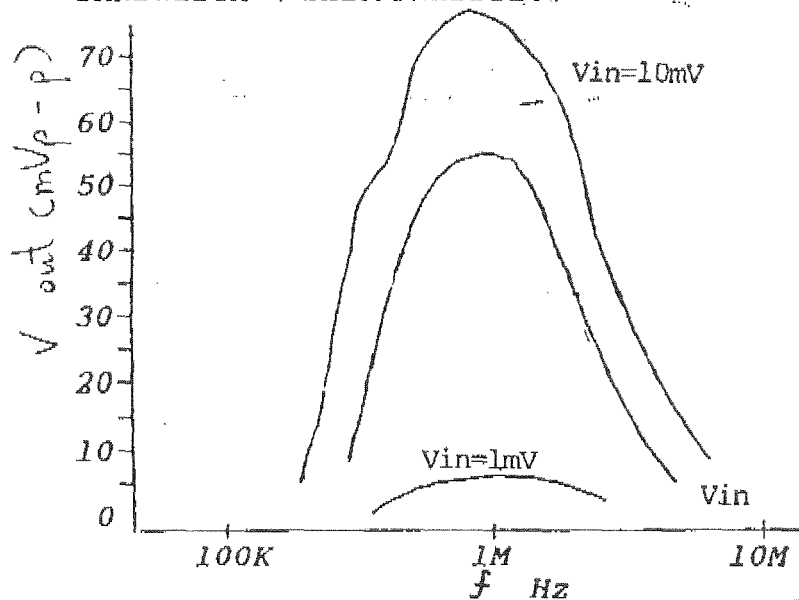
MAXIMUM RATINGS :

OPERATING TEMPERATURE	SYMBOL	RATING	UNIT
OPERATING TEMPERATURE	$T_{opr}$	-30 - +80	$^{\circ}C$
STORAGE TEMPERATURE	$T_{stg}$	-40 - +125	$^{\circ}C$
SUPPLY VOLTAGE	$V_{cc}$	1.5	V

### GAIN VARIATION WITH SUPPLY VOLTAGE



### BANDWIDTH CHARACTERISTICS



### GAIN CHARACTERISTICS

