

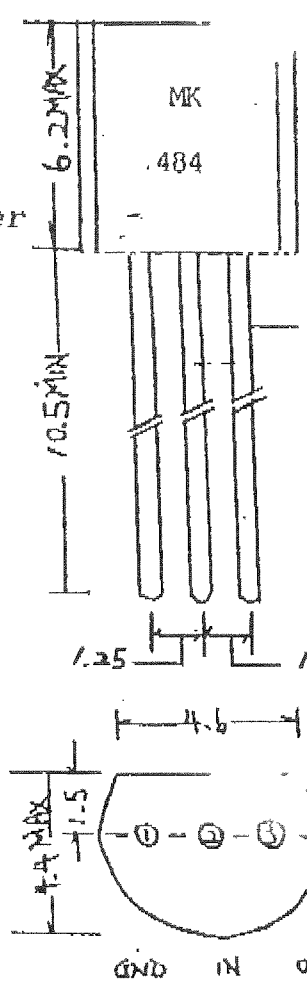
High Sensitivity and high quality AM Radio as possible with a few outside components. As special fetures of the circuit include low supply voltage operation, the device is particularly useful in Watch Radio and lighter with Radio.

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



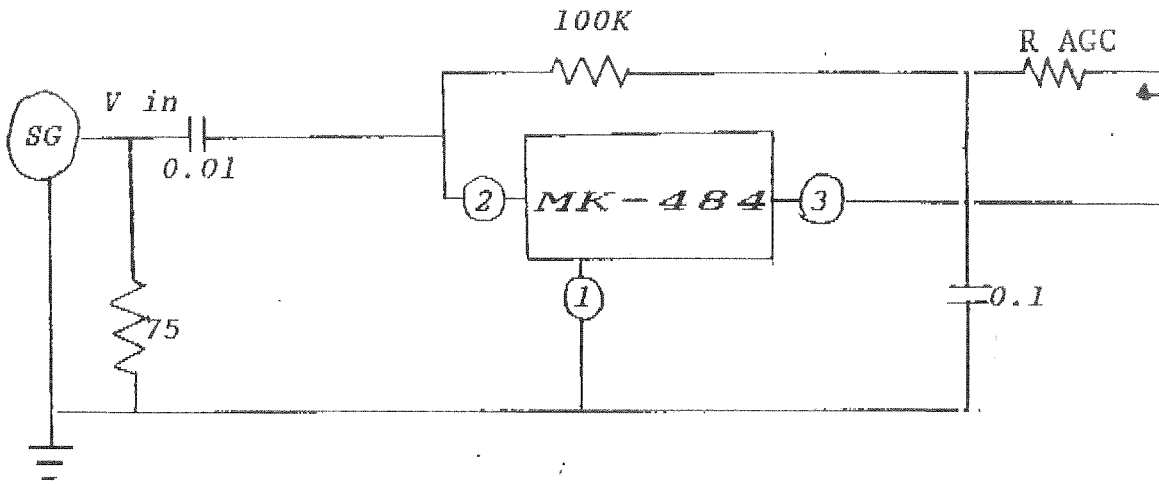
ELECTRICAL CHARACTERISTICS

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

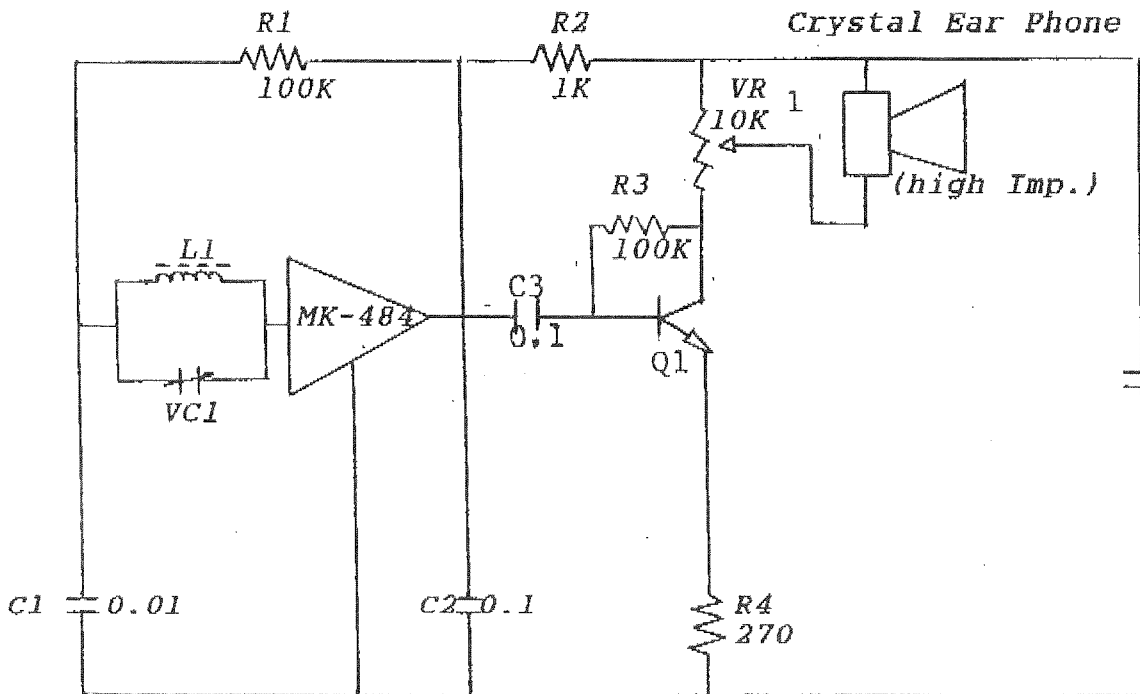
V_{CC} = 1.4V, R_{AGC} = 1.5KΩ, f_R = 1,000KHZ
 Modelation 1,000HZ 40%, V_{in} - 1mV (r.m.s.)

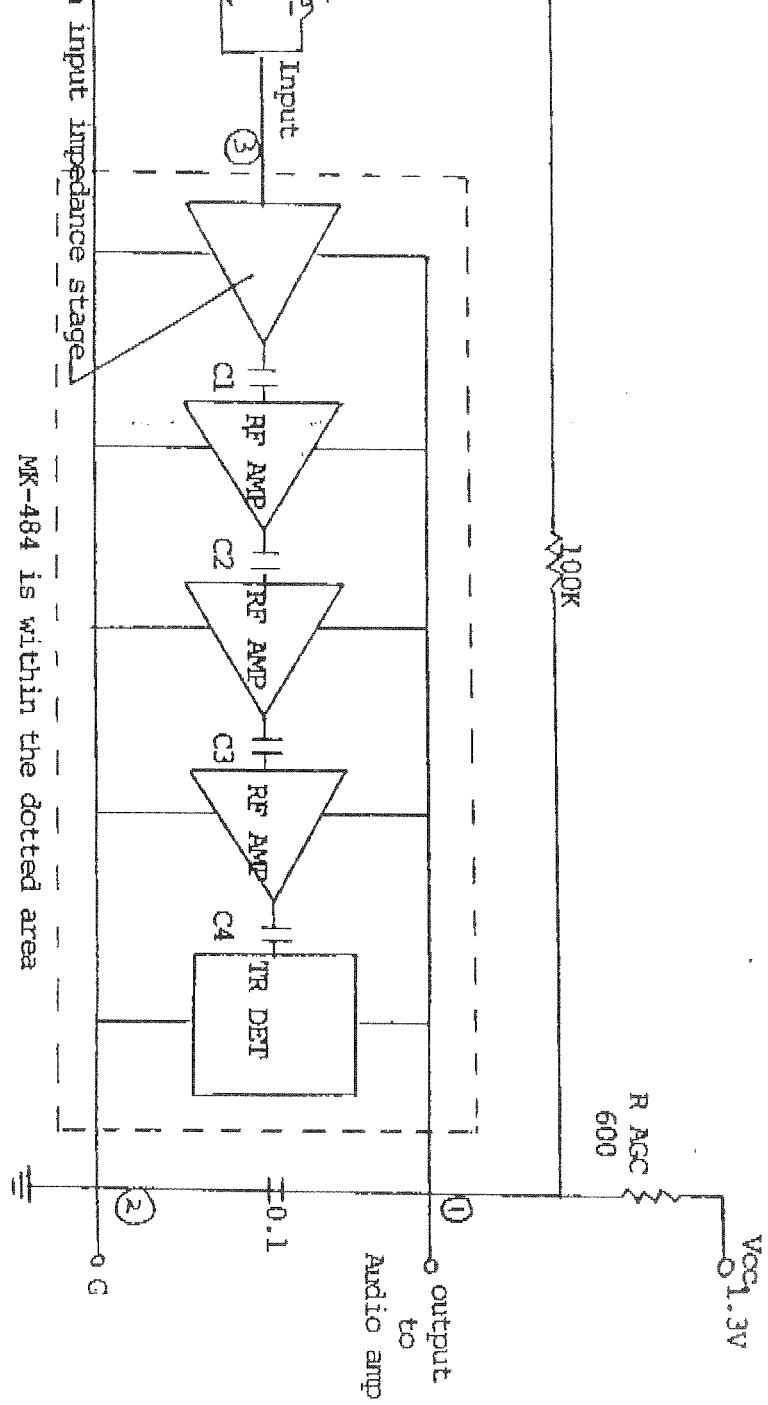
(1) R_{AGC} = 100 - 1.5KΩ

MEASURING CIRCUIT
FOR HIGH IMPEDANCE CIRCUIT



APPLICATION





MK-484 is within the dotted area

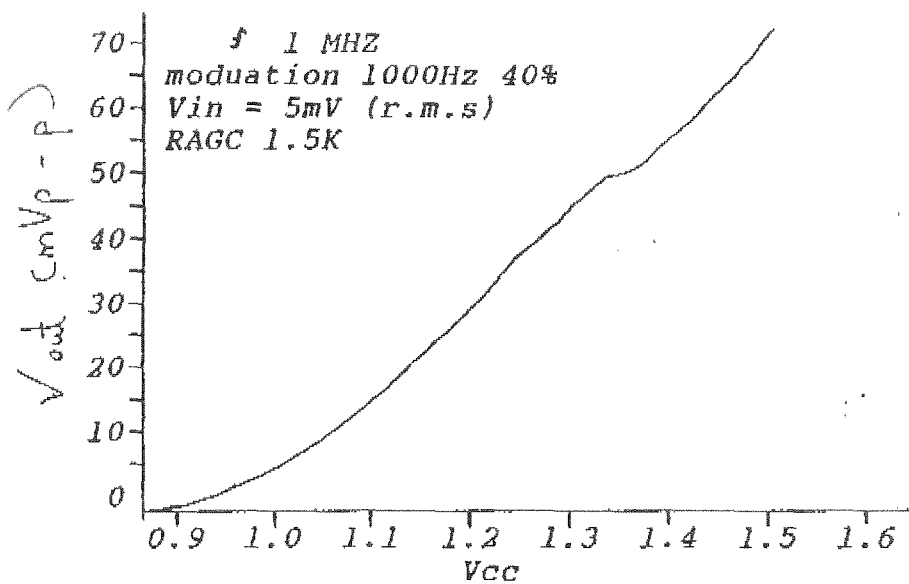
CHARACTERISTIC :

- 1. Supply Voltage : above 1.1v
- 2. Output Voltage : 1.0 - 1.5v
- 3. Output Current : 0.3mA typ.
- 4. f : 300K - 3MKZ
- 5. Input Resistance: 4M Ω typ.

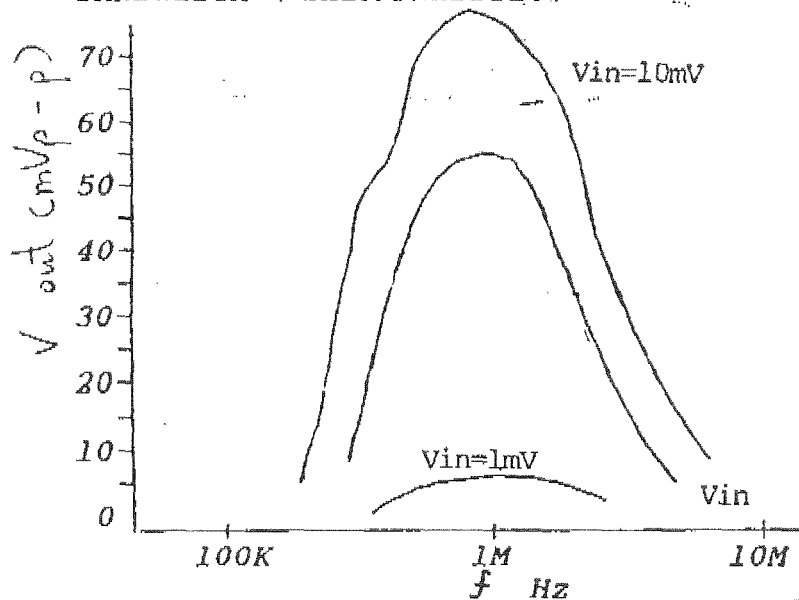
MAXIMUM RATINGS :

| 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

