

**Best Sellers**

<b>Order code</b>	<b>Manufacturer code</b>	<b>Description</b>
35-0192	n/a	PCB MOUNTING MICROPHONE INSERT (RC)

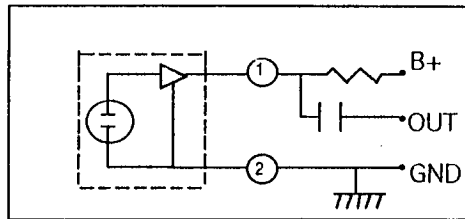
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The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

### 1. SENSITIVITY

( $0\text{dB}=1\text{V}/\mu\text{bar}$ ,  $1\text{KHZ}$ ,  
 $V_{CC}=4.5\text{V}$ ,  $R_L=1\text{K}\Omega$ )

$-60\pm 3\text{DB}$

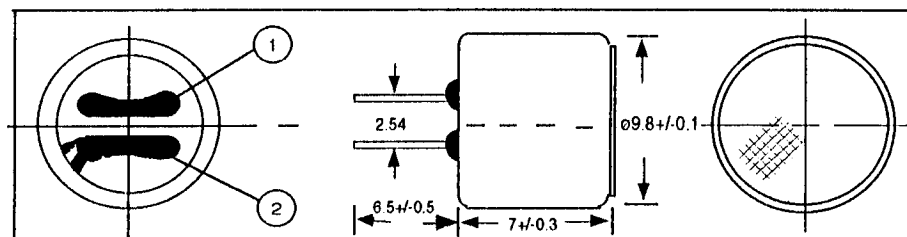
### 2. CIRCUIT DIAGRAM



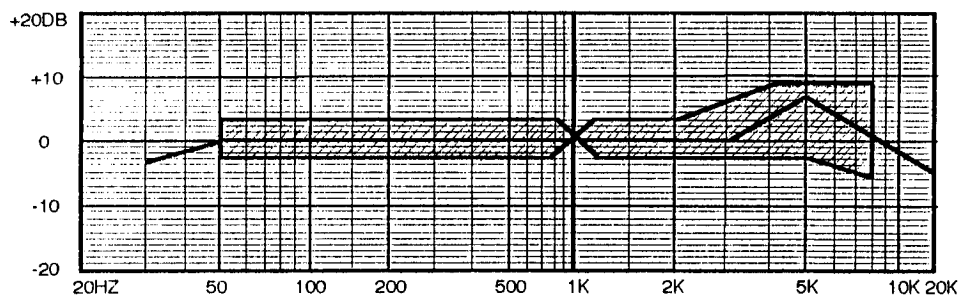
### 3. SPECIFICATIONS

1. IMPEDANCE: LOW
2. STANDARD VOLTAGE: 4.5 V
3. RANGE OF OPERATING VOLTAGE: 1.5 V TO 10 V
4. CURRENT DRAIN: 0.5mA Max
5. S/N RATIO: 40 db or more
6. MAXIMUM INPUT SOUND PRESSURE: 120 db SPL

### 4. DIMENSION



### 5. TYPICAL FREQUENCY RESPONSE CURVE



**MAIN USAGE OF ECM UNITS:** MICROPHONE, CASSETTE TAPE RECORDER, SONIC CONTROLLED TOY, INTERCOM SYSTEM, SONIC CONTROLLED SWITCH, TELEPHONE SET, DISCO LIGHT & ANSWERING MACHINE, ETC.

## 6. RELIABILITY TEST

VIBRATION TEST	TO BE NO INTERFERENCE IN OPERATION AFTER VIBRATION 12HZ TO 50HZ FOR 1 MINUTE FULL AMPLITUDE, FOR 1.5 HOUR AT 3 AXISES.
DROP TEST	TO BE NO INTERFERENCE IN OPERATION AFTER DROPPED TO CONCRETE FLOOR EACH ONE TIME FROM 1 METER HEIGHT AT 3 DIRECTIONS IN STATE OF PACKING.
TEMPERATURE TEST	a) AFTER EXPOSURE AT 55° FOR 1 HOUR, SENSITIVITY TO BE WITHIN +/-3DB FROM INITIAL. b) AFTER EXPOSURE AT -10° FOR 1 HOUR, SENSITIVITY TO BE WITHIN +/-3DB FROM INITIAL.(THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 25°C.)
HUMIDITY TEST	AFTER EXPOSURE AT 40°C AND 95% RH FOR 48 HOURS, SENSITIVITY TO BE WITHIN +/-3DB FROM INITIAL.(AFTER 1 HOUR OF CONDITIONING AT 25° C.)
TEMPERATURE CYCLE TEST	AFTER EXPOSURE AT -10°C FOR 1 HOUR, AT 25°C FOR 1 HOUR, AT 50°C FOR 1 HOUR, AT 25°C FOR 2 HOURS, 4 CYCLES, SENSITIVITY TO BE WITHIN +/-3DB.(AFTER 2 HOURS OF CONDITIONING AT 25°C.)

### \* REGARDING THE SOLDERING OPERATION:

EACH CONDENSER MICROPHONE CONTAINS A FET WITHIN ITS CASE. GENERALLY, SEMICONDUCTORS ARE EASILY WEAKENED BY OVER-HEATING, OVER-CHARGE OF VOLTAGE. SPECIAL CAUTION IS NEEDED FOR PROPER SOLDERING AS FOLLOWS.

1. USE 30W (OR UNDER) SOLDERING IRON AND MAINTAIN 230°-260°C IN OPERATION.
2. SOLDERING SHOULD BE ACCOMPLISHED WITHIN TWO SECONDS AT EACH TERMINAL SO AS NOT TO BE OVERHEATED.
3. DO NOT MAKE A CAVITY AT THE SERFACE OF LEAD ON THE PATTERN PLATE. (A CAVITY MAY CHANGE THE CHARACTERISTICS OF CONDENSER MICROPHONE.)