

MODEL ECM-60**OMNI DIRECTIONAL****1. SENSITIVITY**

($O_dB=1V/\mu\text{ bar}, 1\text{KHz},$
 $VCC=4.5V, R_L=1K\Omega$)

A: $-56\pm 3\text{dB}$

B: $-60\pm 3\text{dB}$

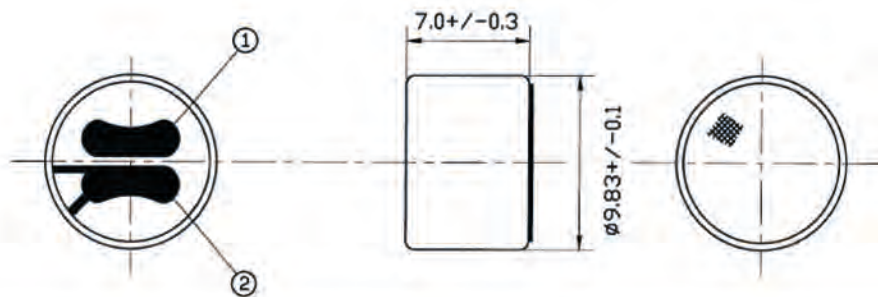
C: $-64\pm 3\text{dB}$

D: $-68\pm 3\text{dB}$

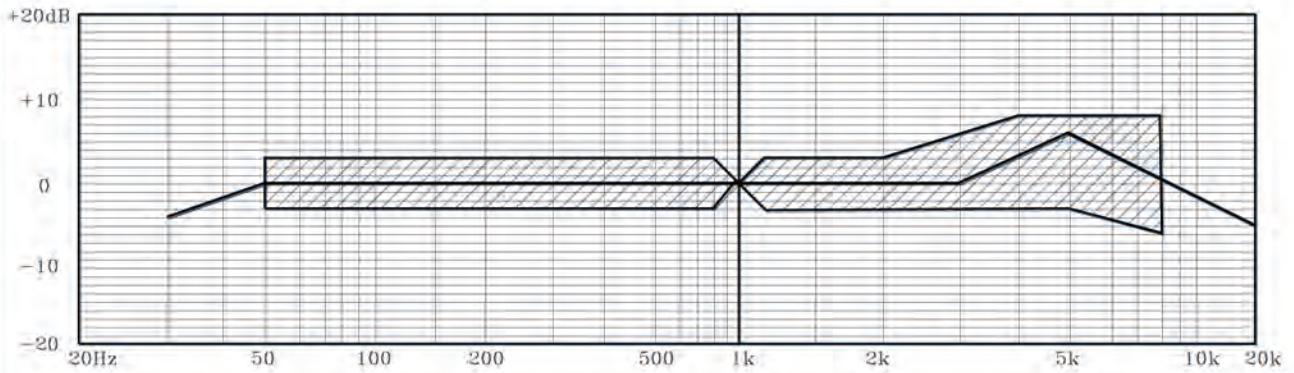
E: $-72\pm 3\text{dB}$

2. CIRCUIT DIAGRAM**3. SPECIFICATIONS**

1. IMPEDANCE : LOW
2. STANDARD VOLTAGE : 4.5V
3. RANGE OF OPERATING VOLTAGE : 1.5V TO 10V
4. CURRENT DRAIN : 0.25mA 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 ,CASSETTETAPE RECORDER,SONIC CONTROLLED TOY, INTERCOM SYSTEM,
SONIC CONTROLLED SWITCH,TELEPHONE SET, DISCO LIGHT & ANSWERING
MACHINE,ETC.

6. RELIABILITY TEST

<p>VIBRATION TEST</p>	<p>TO BE NO INTERFERENCE IN OPERATION AFTER VIBRATION 12Hz TO 50Hz FOR 1 MINUTE FULL AMPLITUDE, FOR 1.5 HOUR AT 3 AXISES.</p>
<p>DROP TEST</p>	<p>TO BE NO INTERFERENCE IN OPERATION AFTER DROPPED TO CONCRETET FLOOR EACH ONE TIME FROM 1 METER HEIGHT AT 3 DIRECTONS IN STATE OF PACKING.</p>
<p>TEMPERATURE TEST</p>	<p>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.)</p>
<p>HUMIDITY TEST</p>	<p>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.)</p>
<p>TEMPERATURE CYCLE TEST</p>	<p>AFTER EXPOSURE AT -10°C FOR 1HOUR, AT 25°C FOR 1 HOUR, AT 50°C FOR 1 HOUR, ATO 25°C FOR 2 HOURS, 4 CYCLES ,SENSITIVITY TO BE WITHIN +/-3dB. (AFTER 2 HOURS OF CONDITIONING AT 25°C)</p>

***REGARDING THE SOLDERING OPERATION :**

EACH CONDENSER MICROPHONE CONTAINS A FET WITHIN ITS CASE.

GENERALLY, OVER-HEATING, OVER-CHARGE OF VOLTAGE IS EASY TO DESTROY SEMICONDUCTORS.

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 CHARACTERISTICE OF CONDENSER MICROPHONE.)