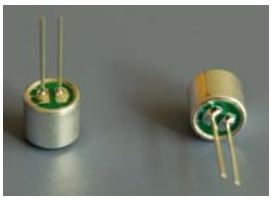
MODEL ECM-10P OMNI DIRECTIONAL

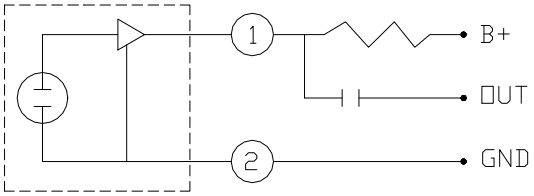
1. SENSITIVITY

(OdB=1V/μ bar,1KHz,
VCC=4.5V, RL=1KΩ)

A：-56±3dB
B：-60±3dB
C：-64±3dB
D：-68±3dB
E：-72±3dB



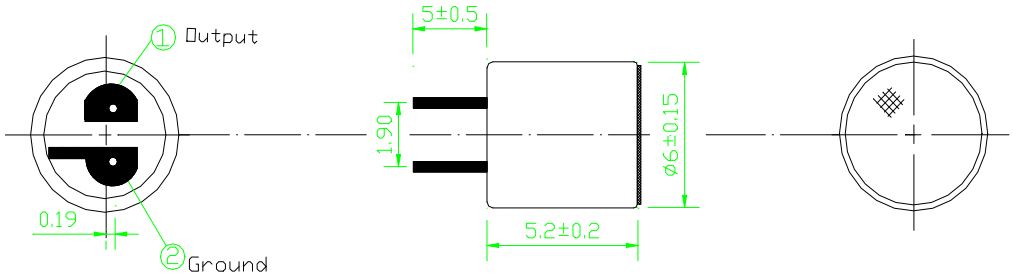
2. CIRCUIT DIAGRAM



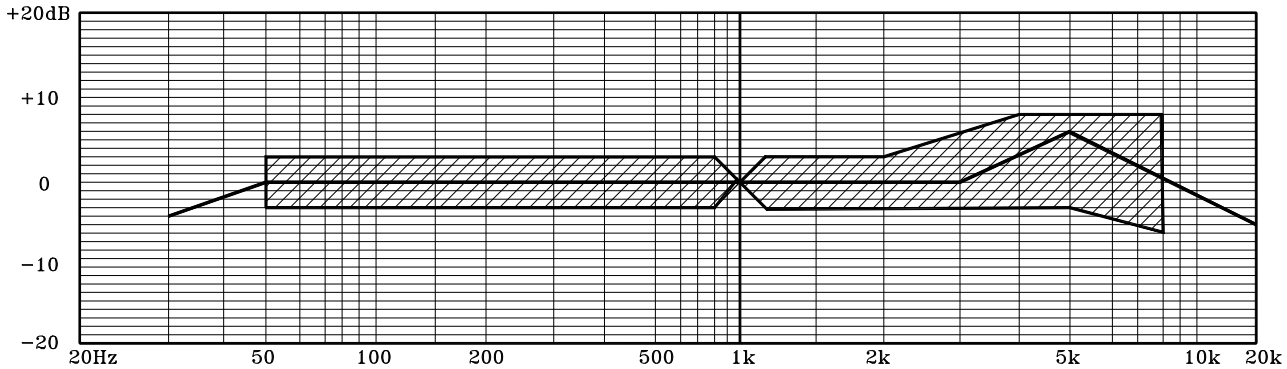
3. SPECIFICATIONS

1. IMPEDANCE：LOW
2. STANDARD VOLTAGE：4.5V
3. RANGE OF OPERATING VOLTAGE：1.5V TO 10V
4. CURRENT DRAIN：0.5mA 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 ,CASSETTETAPE 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 CONCERTET FLOOR EACH ONE TIME FROM 1 METER HEIGHT AT 3 DIRECTONS 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 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)

*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.)