



JININ ELECTRET CONDENSER MICROPHONE UNITS

MODEL ECM-60

OMNI DIRECTIONAL

1. SENSITIVITY

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

A: $-56 \pm 3dB$

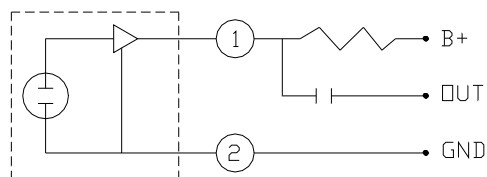
B: $-60 \pm 3dB$

C: $-64 \pm 3dB$

D: $-68 \pm 3dB$

E: $-72 \pm 3dB$

2. CIRCUIT DIAGRAM



3. SPECIFICATIONS

1. IMPEDANCE: LOW

2. STANDARD VOLTAGE: 4.5V

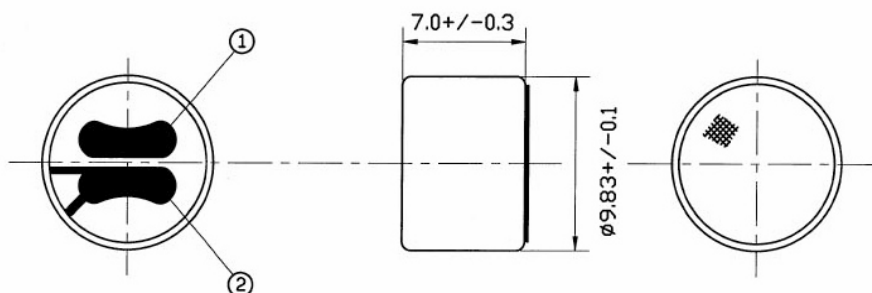
3. RANGE OF OPERATING VOLTAGE: 1.5V TO 10V

4. CURRENT DRAIN: 0.25mA MAX

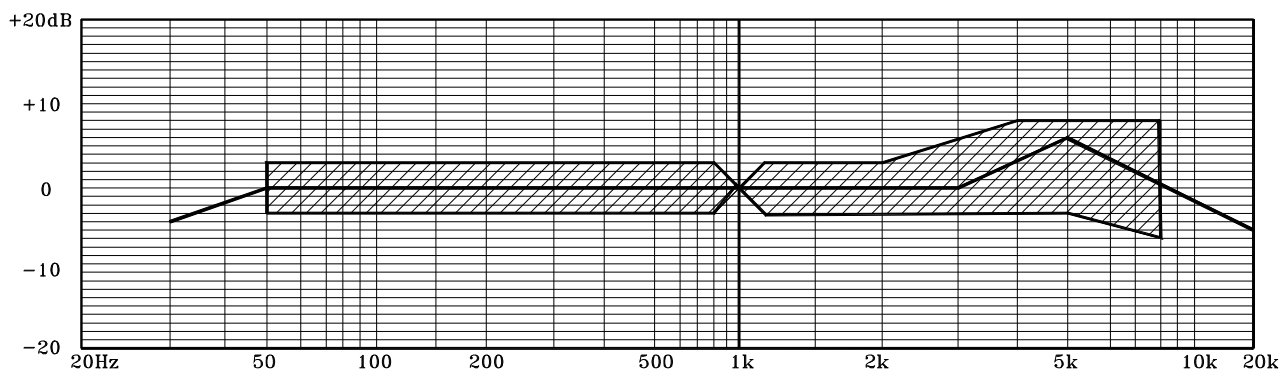
5. S/N RATIO: 40 dB or more

6. MAXIMUM INPUT SOUND PRESSURE: 120 dB SPL

4. DIMENSION



5. TYPICAL FREQUENCY RESPONSE CURVE



MAIN USAGE OF ECM UNITS: MICROPHONE ,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 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.)



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