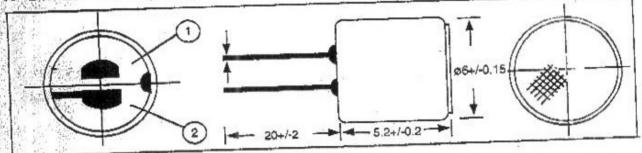
Best No. 302147 ELECTRET CONDENSER MICROPHONE UNIT

MODEL ECM-10 OMNI DIRECTIONAL 2. CIRCUIT DIAGRAM (CDB=1W μ bar, 1KHZ, VCC=4.5V, RL=1K Ω) D: -68±3dB OMNI DIRECTIONAL 2. CIRCUIT DIAGRAM (D) -68±3dB

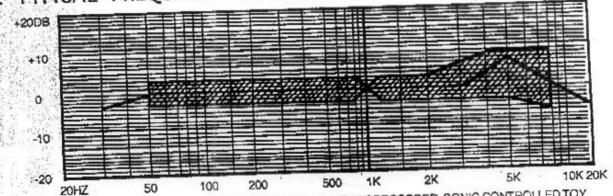
3. SPECIFICATIONS

- 1. IMPEDANCE: LOW
- Z. 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 (MM)



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.

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RELIABILITY TEST

IBRATION TEST	TO BE NO INTERFERENCE IN OPERATION AFTER VIBRATION 12HZ TO SOHZ FOR 1 MINUTE FULL AMPLITUDE, FOR 1.5 HOUR AT 3 AXISES.
DROP TEST	TO BE NO INTERFERENCE IN OPERATION AFTER DROPPED TO CONCERETE 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 CARACTERISTICS OF CONDENSER MICROPHONE.)