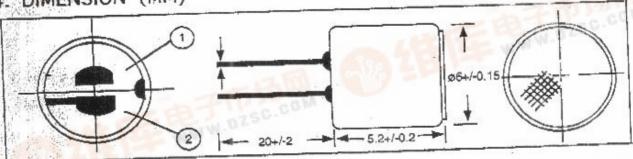
## Best No. 302147 ELECTRET CONDENSER MICROPHONE UNIT

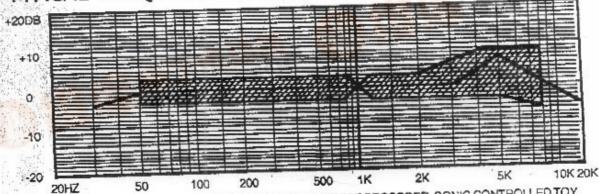
# MODEL ECM-10 OMNI DIRECTIONAL 2. CIRCUIT DIAGRAM (ODB=1N/ μ bar, 1KHZ, VCC=4.5V, RL=1K Ω) D; -68±34B 1. IMPEDANCE: LOW 2. STANDARD VOLTAGE: 4.5 V 2. STANDARD VOLTAGE: 4.5 V

- 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 (MM)



# 5. TYPICAL FREQUENCY RESPONSE CURVE



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

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# 6. RELIABILITY TEST

IABILITY IEST	
BRATION 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.)