JININ ELECTRET CONDENSER MICROPHONE UNITS

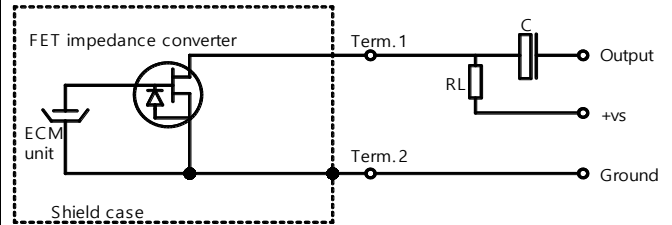| MODEL EM-4015P	OMNI DIRECTIONAL

1. SENSITIVITY

(O dB=1V/μbar,1KHz,

VCC=2V, RL=2.2KΩ)

-38±2dB

-40±2dB

-42±3dB

-44±3dB

-46±3dB

2. CIRCUIT DIAGRAM

FET impedance converter
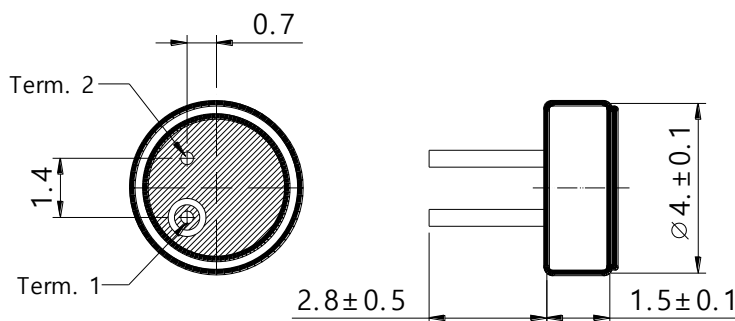
Term.1

C

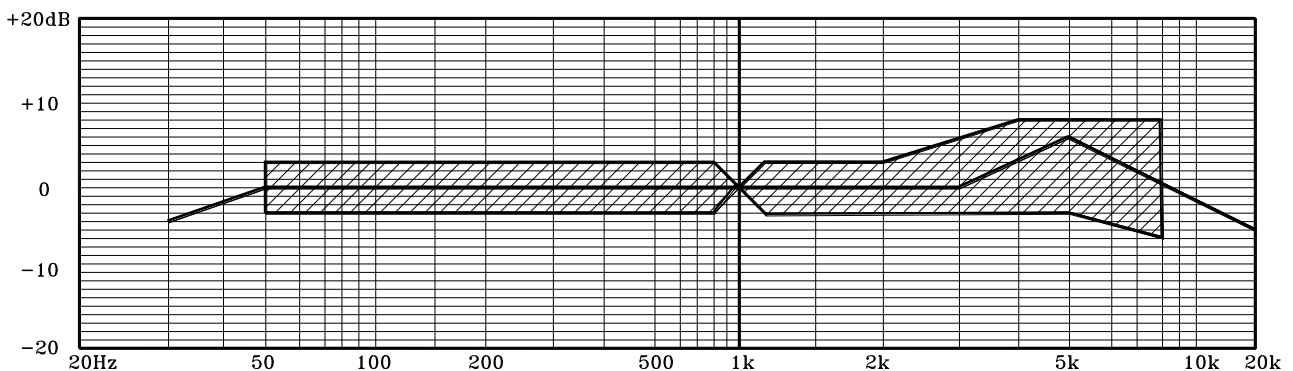Output

RL

+vs

ECM unit

Term.2

Ground

Shield case

3. SPECIFICATIONS

1. IMPEDANCE : Less than 2.2KΩ
2. STANDARD VOLTAGE : 2.V
3. RANGE OF OPERATING VOLTAGE : 1.5V TO 10V
4. CURRENT DRAIN : 0.5mA MAX
5. S/N RATIO : 58 dB or more
6. MAXIMUM INPUT SOUND PRESSURE : 120 dB SPL
7. RoHS Compliant.

4. DIMENSION

0.7

Term. 2

1.4

Term. 1

2.8±0.5

∅ 4. ±0.1

1.5±0.1

5. TYPICAL FREQUENCY RESPONSE CURVE

+20dB

+10

0

−10

−20

20Hz 50 100 200 500 1k 2k 5k 10k 20k

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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