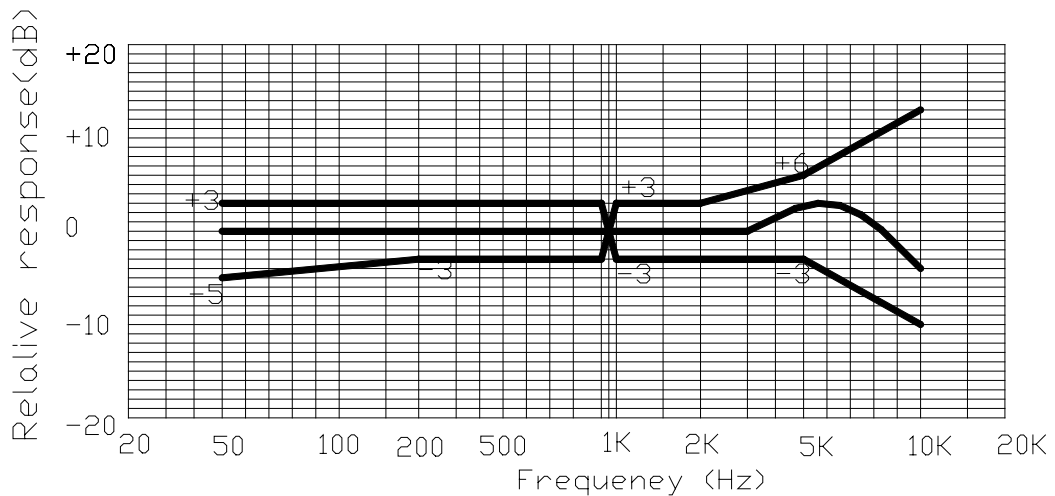


APPROVAL SHEET

TYPE: "MynTahl" Electret Condenser Microphone
Part No.: **MTW929A-622-3022-W1**

1. ELECTRICAL PERFORMANCE

1.1 Typical frequency response as the picture shows:



1.2 Sensitivity (1000Hz 0dB=1V/ μ Bar, Ec=3.0VDC, RL=2.2K Ω)

Minimum

Standard

Maximum

-67dB

-64dB

-61dB

Special Technical Request Provided By Customers are Available

Directivity

Standard Operation Voltage

Output Impedance

Operation Voltage Range

Sensitivity Reduction

Current Consumption

S/N ratio

: Omni directional

: 3.0VDC

: 2.2K Ω

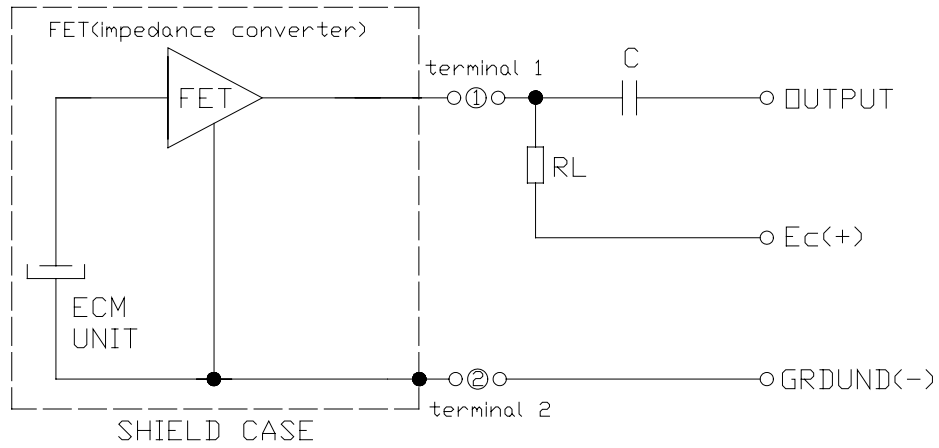
: 1V-12VDC

: Within-3dB at 1V

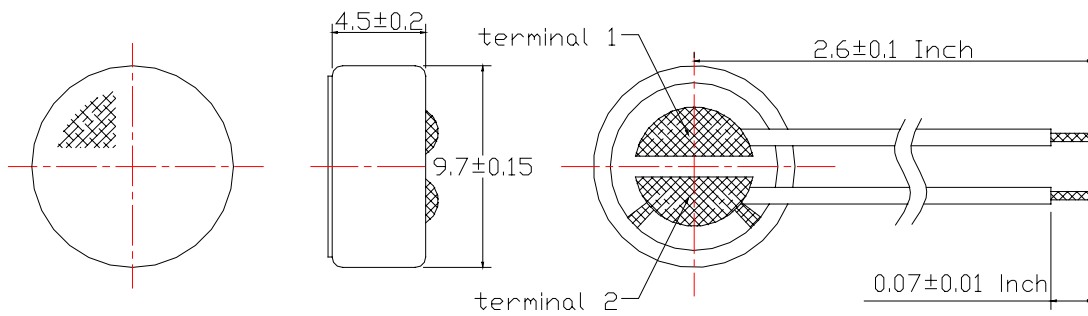
: ≤ 0.5 mA

: 40dB or More

2. STANDARD TEST CIRCUIT



3. APPEARANCE & DIMENSION (UNIT:mm)



4. RELIABILITY TEST

4.1 Environment Temperature : $-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$

4.2 Storage Temperature : $-25^{\circ}\text{C}\sim+70^{\circ}\text{C}$

4.3 Product Testing :

4.3.1 Soldering Test:

At $+260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ in 3 ± 1 second, sensitivity change $\leq \pm 3\text{dB}$ from initial value .

4.3.2 Vibration Test:

Three shaft upside, vibration frequency =60Hz, improved =20s vibrate within 2 hours, sensitivity change $\leq \pm 3\text{dB}$ from initial value.

4.3.3 Drop Test:

The microphone unit without package must be subjected to each 3 drops at three axis from the height 1 meter to 20 mm thick hardwood board, sensitivity change $\leq \pm 3\text{dB}$ from initial value

4.3.4 Temperature Test :

a. $+55^{\circ}\text{C}$ lasting for 100 hours, the unit is kept at room temperature for 24 hours. sensitivity change $\leq \pm 3\text{dB}$ from initial value. (at $+20^{\circ}\text{C}\pm 2^{\circ}\text{C}$ condition test after 2 hours)

b. -20°C lasting for 100 hours, the unit is kept at room temperature for 24 hours. sensitivity change $\leq \pm 3\text{dB}$ from initial value. (at $20^{\circ}\text{C}\pm 2^{\circ}\text{C}$ condition test after 2 hours)

4.5 Humidity Test:

$+65^{\circ}\text{C}\pm 2^{\circ}\text{C}$, related humidity 90-95%, lasting for 100 hours, sensitivity

change $\leq \pm 3\text{dB}$ from initial value. (at $20^{\circ}\text{C}\pm 2^{\circ}\text{C}$ condition test after

2 hours)

4.6 Temperature Cycles Testing:

At -20°C after 2 hours back to 25°C lasting 2 hours, then put in $+65^{\circ}\text{C}$ for 24 hours for 1 times, sensitivity change $\leq \pm 3\text{dB}$ from initial value.

5. SAMPLE TEST

Test condition
1000Hz 0dB=1V/ μ Bar 3.0VDC 2.2K Ω

Test Item
Characteristic
Dimensions

Sensitivity
Current
Dia
Height

Reference
No.

-62 \pm 2
(dB)
 \leq 0.5
(mA)
9.7 \pm 0.15
(mm)
4.5 \pm 0.2
(mm)

1

2

3

4



5

6

7

8

9

10

MAX

MIN

X

Remark: