



# PUIaudio

## Data Sheet

AI-2628-TF-LW100-WP-R

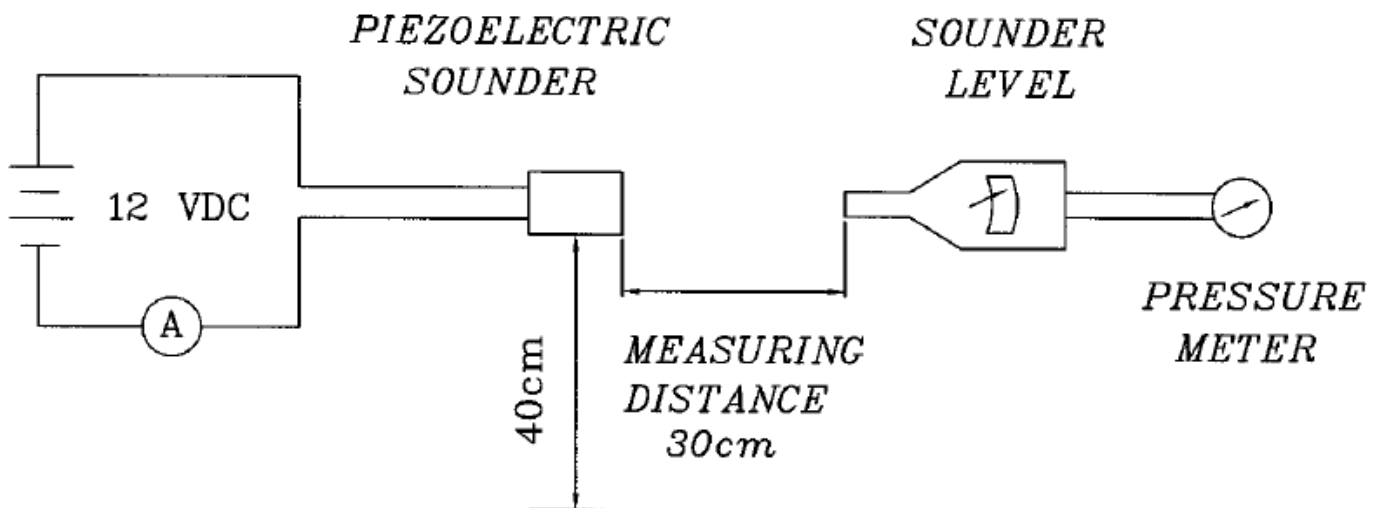
### Features

- IP67 Rated Piezo Indicator
- Lead wires for easy installation
- 2,800 Hz Resonant Frequency

### Specifications

| Parameters                    | Values      | Units |
|-------------------------------|-------------|-------|
| Rated Voltage                 | 12          | VDC   |
| Operating Voltage Range       | 6 ~ 14      | VDC   |
| Current Draw at Rated Voltage | 35          | mA    |
| Minimum SPL @ 30cm            | 85          | dBA   |
| Resonant Frequency            | 2,800 ± 500 | Hz    |
| Tone or Pulse Rate            | Continuous  | -     |
| Housing Material              | ABS         | -     |
| Terminal Material             | Lead Wire   | -     |
| Weight                        | 41          | Grams |
| Acceptable Soldering Methods  | Hand Solder | -     |
| Environmental Compliances     | RoHS        | -     |
| Storage Temperature           | -40 ~ +95   | °C    |
| Operating Temperature         | -30 ~ +85   | °C    |
| IP Rating                     | IP67        | -     |

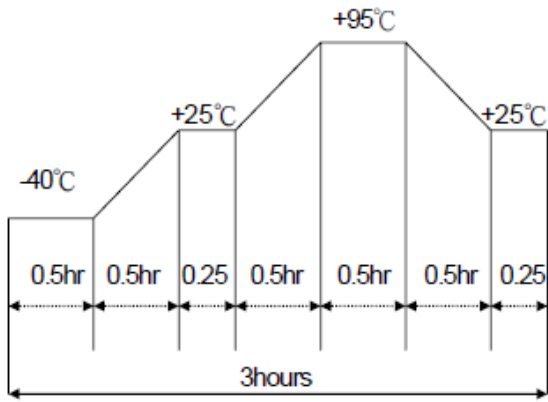
### Measurement Method



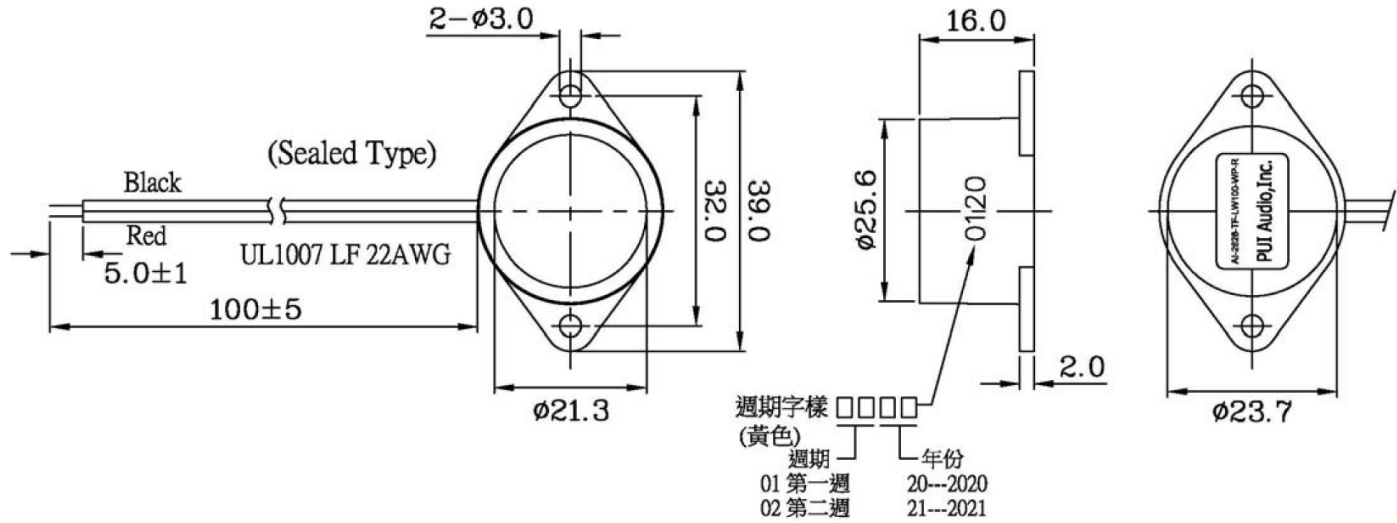
## Reliability

| No. | Item                                                       | Test Condition                                                                                                                                                                                                              | Evaluation standard                                                                                                                                                           |
|-----|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Solderability<br>焊錫附著性<br>(Connector excepted)<br>端子類不適用此項 | Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm5^{\circ}\text{C}$ for $3\pm0.5$ seconds.<br>裸線部份浸入松香溶液 5 秒後,再浸入 $+270\pm5^{\circ}\text{C}$ 熔融焊錫槽 $3\pm0.5$ 秒。 | 90% min. stripped wires shall be wet with solder.(Except the edge of terminal)<br>浸入裸線部份附著焊錫 90%以上.(末端斷面不算)                                                                   |
| 2   | Lead Wire Pull Strength<br>線材拉力                            | The pull force shall be applied to double lead wire:<br>Horizontal 3.0N(0.306kg) for 30 seconds.<br>Vertical 2.0N(0.204kg) for 30 seconds.<br>雙線材水平方向施以 3.0N(0.306kg)的力量, 垂直方向施以 2.0N(0.204kg)的力量,各 30 秒                    | No damage and cutting off.<br>線材不鬆動,不脫落。                                                                                                                                      |
| 3   | Vibration<br>振動試驗                                          | Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.<br>振動週波數 10~55HZ、全振幅 1.5mm 於 XYZ 3 個方向,各 2 小時。 | The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one. |
| 4   | Drop test<br>落下測試                                          | The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).<br>單體從 75 公分高處,XYZ 3 個方向,各 3 回,落於 40mm 厚木板上。                                           | 諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內。輸出音壓變化量須在 $\pm 10\text{dB}$ 內。                                                                                                                    |

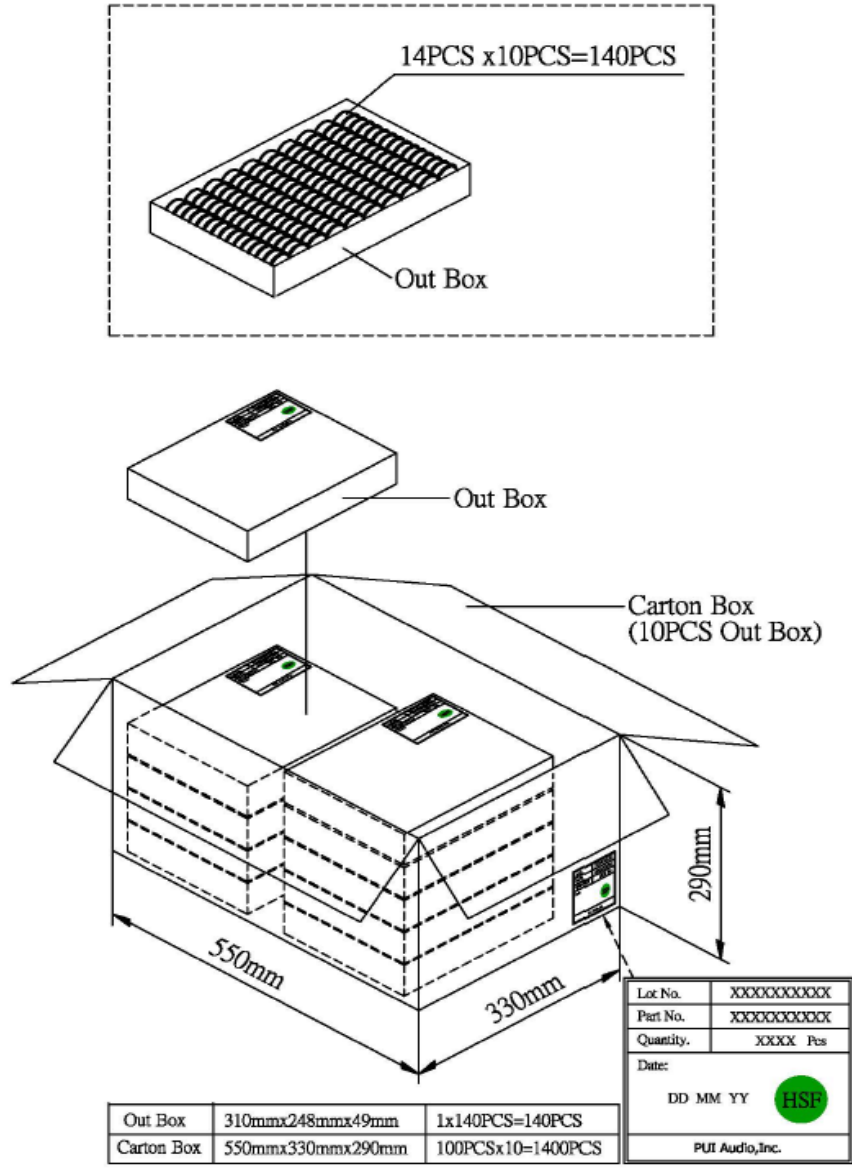
## Temp Tests

| No. | Item                       | Test Condition                                                                                                                                                                                   | Evaluation standard                                                                                                                                                                                                                                                                                                                                                       |
|-----|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | High temp. test<br>高溫測試    | After being placed in a chamber at $+95^{\circ}\text{C}$ for 240 hours<br>置於 $+95^{\circ}\text{C}$ 環境中 240 小時                                                                                    | Being placed for 4 hours at $+25^{\circ}\text{C}$ , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one.<br>經測試後, 靜置於 $+25^{\circ}\text{C}$ (室溫) 環境中 4 小時後, 諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內。輸出音壓變化量須在 $\pm 10\text{dB}$ 內。 |
| 2   | Low temp. test<br>低溫測試     | After being placed in a chamber at $-40^{\circ}\text{C}$ for 240 hours<br>置於 $-40^{\circ}\text{C}$ 環境中 240 小時                                                                                    |                                                                                                                                                                                                                                                                                                                                                                           |
| 3   | Humidity test<br>相對濕度測試    | After being placed in a chamber at $+40^{\circ}\text{C}$ and $90\pm 5\%$ relative humidity for 240 hours<br>置於 $+40^{\circ}\text{C}$ , 相對濕度 $90\pm 5\%$ 環境中 240 小時                               |                                                                                                                                                                                                                                                                                                                                                                           |
| 4   | Temp. cycle test<br>溫度循環試驗 | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of:<br/>單體承受溫度循環測試 5 次,其循環內容如圖示:</p>  |                                                                                                                                                                                                                                                                                                                                                                           |

Dimensions



Packaging



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