



PUIaudio

Data Sheet

AI-2630-T-WP-LW250-R

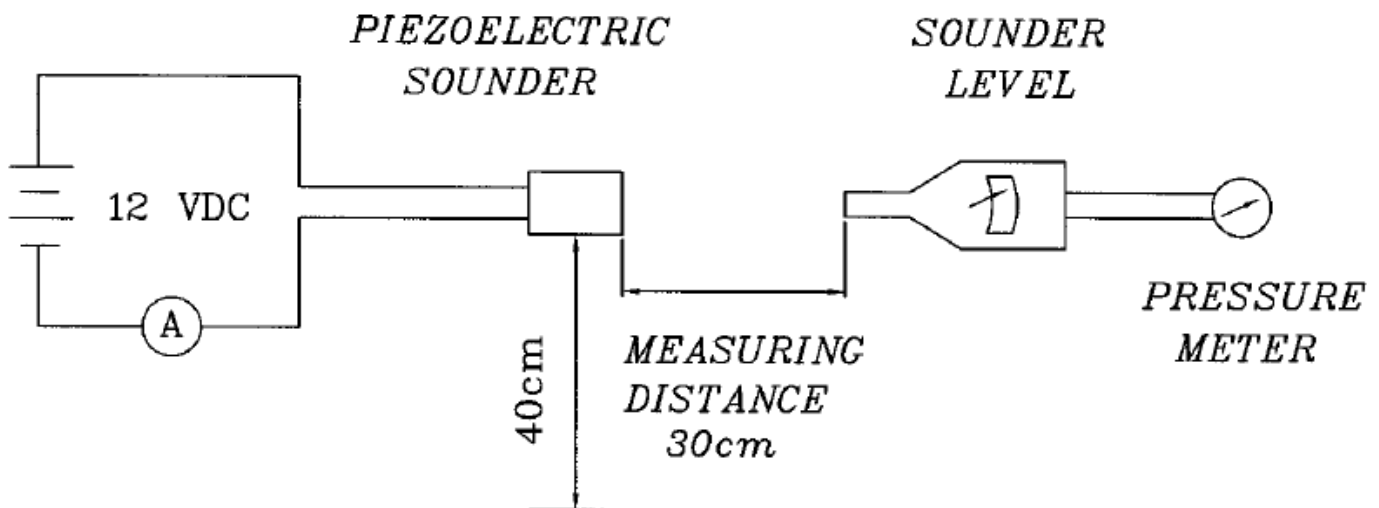
Features

- IP67 Rated Piezo Indicator
- Lead wires for easy installation
- 3,000 Hz Resonant Frequency

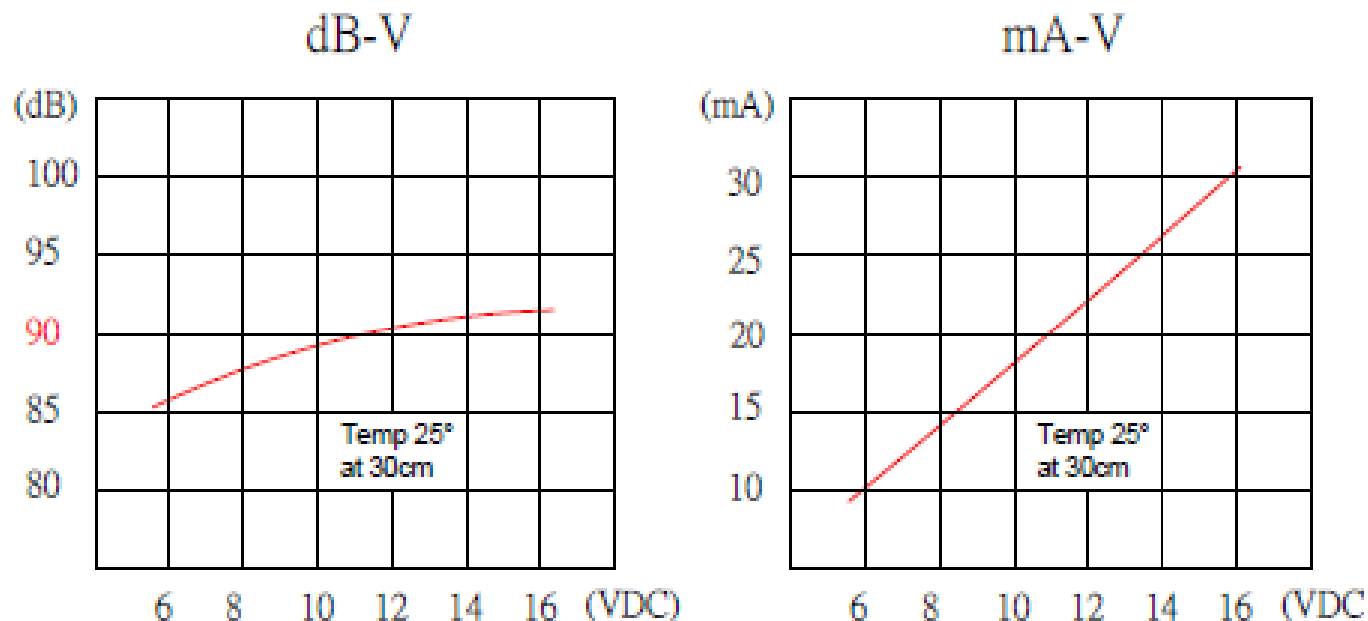
Specifications

| Parameters | Values | Units |
|-------------------------------|-------------|-------|
| Rated Voltage | 12 | VDC |
| Operating Voltage Range | 6 ~ 14 | VDC |
| Current Draw at Rated Voltage | 35 | mA |
| Minimum SPL @ 30cm | 80 | dBA |
| Resonant Frequency | 3,000 ± 500 | Hz |
| Tone or Pulse Rate | Continuous | - |
| Housing Material | ABS | - |
| Terminal Material | Lead Wire | - |
| Weight | 10 | Grams |
| Acceptable Soldering Methods | Hand Solder | - |
| Environmental Compliances | RoHS | - |
| Storage Temperature | -30 ~ +85 | °C |
| Operating Temperature | -40 ~ +95 | °C |
| IP Rating | IP67 | - |

Measurement Method



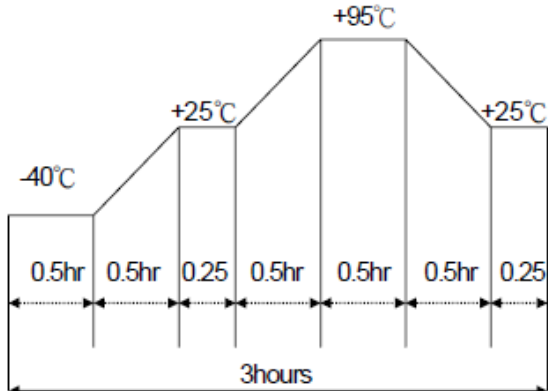
Voltage/Current Consumption



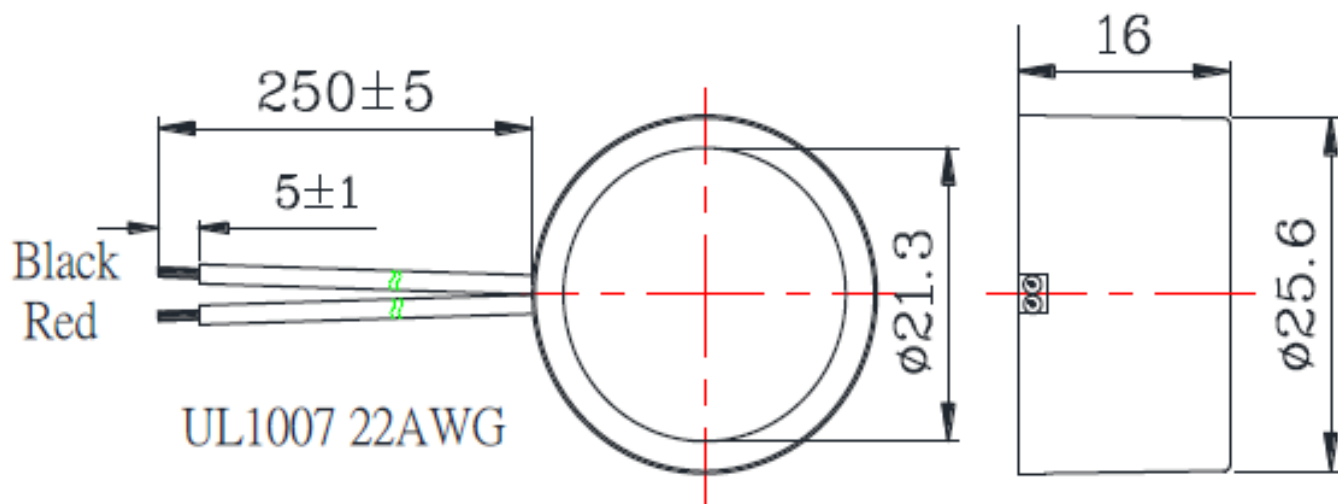
Reliability

| No. | Item | Test Condition | Evaluation standard |
|-----|--|---|---|
| 1 | Solderability 焊錫附著性 (Connector excepted) 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±5°C for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5°C溶融焊錫槽 3±0.5 秒. | 90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊錫 90%以上.(末端斷面不算) |
| 2 | Lead Wire Pull Strength 線材拉力 | The pull force shall be applied to double lead wire: Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 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. 線材不鬆動,不脫落. |
| 3 | Vibration 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. 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 ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one. |
| 4 | Drop test 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). 單體從 75 公分高處,XYZ3 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 ±10%內. 輸出音壓變化量須在 ±10dB 內. |

Temp Tests

| No. | Item | Test Condition | Evaluation standard |
|-----|----------------------------|---|--|
| 1 | High temp. test 高溫測試 | After being placed in a chamber at +95°C for 240 hours 置於+95°C環境中 240 小時 | <p>Being placed for 4 hours at +25°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.</p> <p>經測試後，靜置於+25°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。</p> |
| 2 | Low temp. test 低溫測試 | After being placed in a chamber at -40°C for 240 hours 置於-40°C環境中 240 小時 | |
| 3 | Humidity test 相對濕度測試 | After being placed in a chamber at +40°C and $90\pm 5\%$ relative humidity for 240 hours 置於+40°C，相對濕度 $90\pm 5\%$ 環境中 240 小時 | |
| 4 | Temp. cycle test 溫度循環試驗 | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of: 單體承受溫度循環測試 5 次，其循環內容如圖示：</p>  <p>The diagram illustrates a temperature cycle test profile over a 3-hour period. The cycle consists of the following segments: 0.5hr at -40°C, 0.5hr ramping to +25°C, 0.25hr at +25°C, 0.5hr ramping to +95°C, 0.5hr at +95°C, 0.5hr ramping to +25°C, and 0.25hr at +25°C. The total duration is 3 hours.</p> | |

Dimensions



Specifications Revisions

| Revision | Description | Date |
|-----------------|---------------------------|-------------|
| A | Released from Engineering | 7/6/2021 |

Note:

1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
2. Specifications subject to change or withdrawal without notice.
3. This part is ROHS 2015/863/EU compliant (7c-1 piezo devices)

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