



Data Sheet	AI-2628-TF-LW100-WP-R
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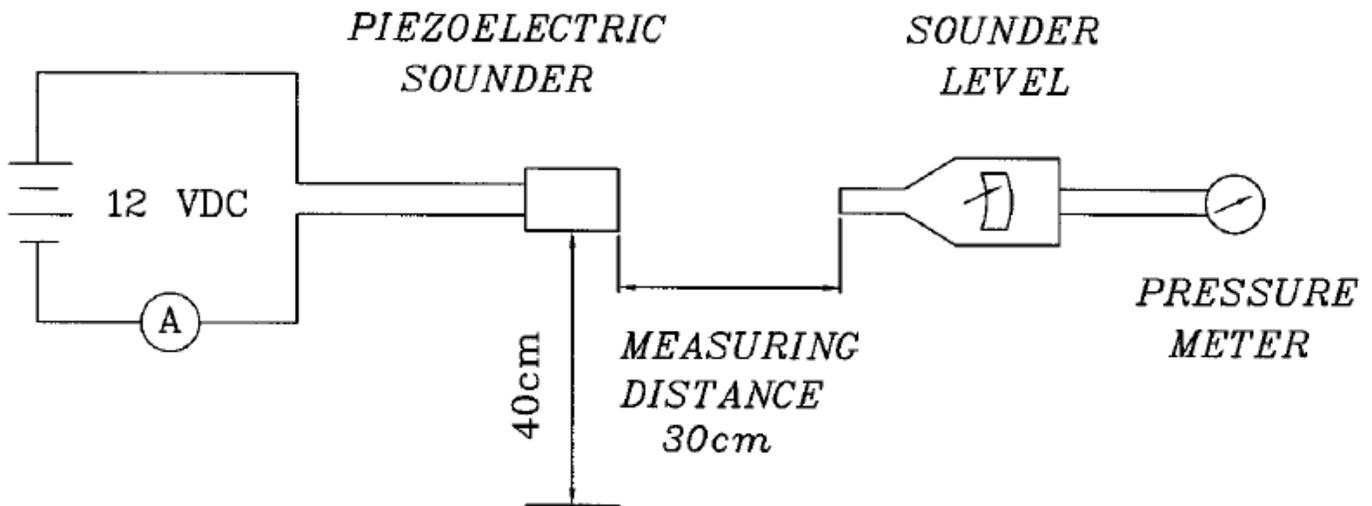
Features

- 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	-

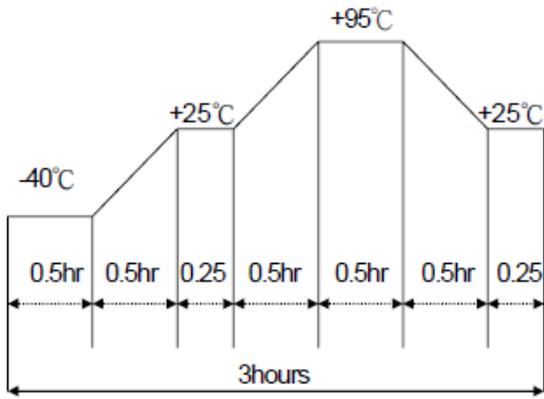
Measurement Method



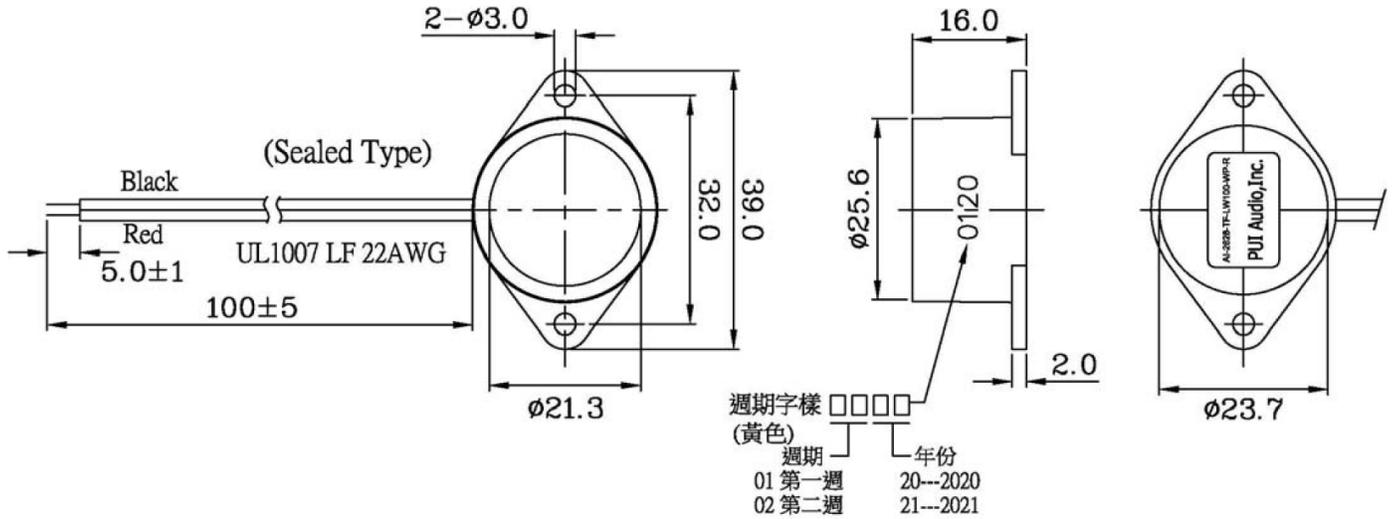
Reliability

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊錫附着性 (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 $+270\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入 $+270\pm 5^{\circ}\text{C}$ 熔融焊錫槽 3 ± 0.5 秒。	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附着焊錫 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 X,Y,Z 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 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, X,Y,Z 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。

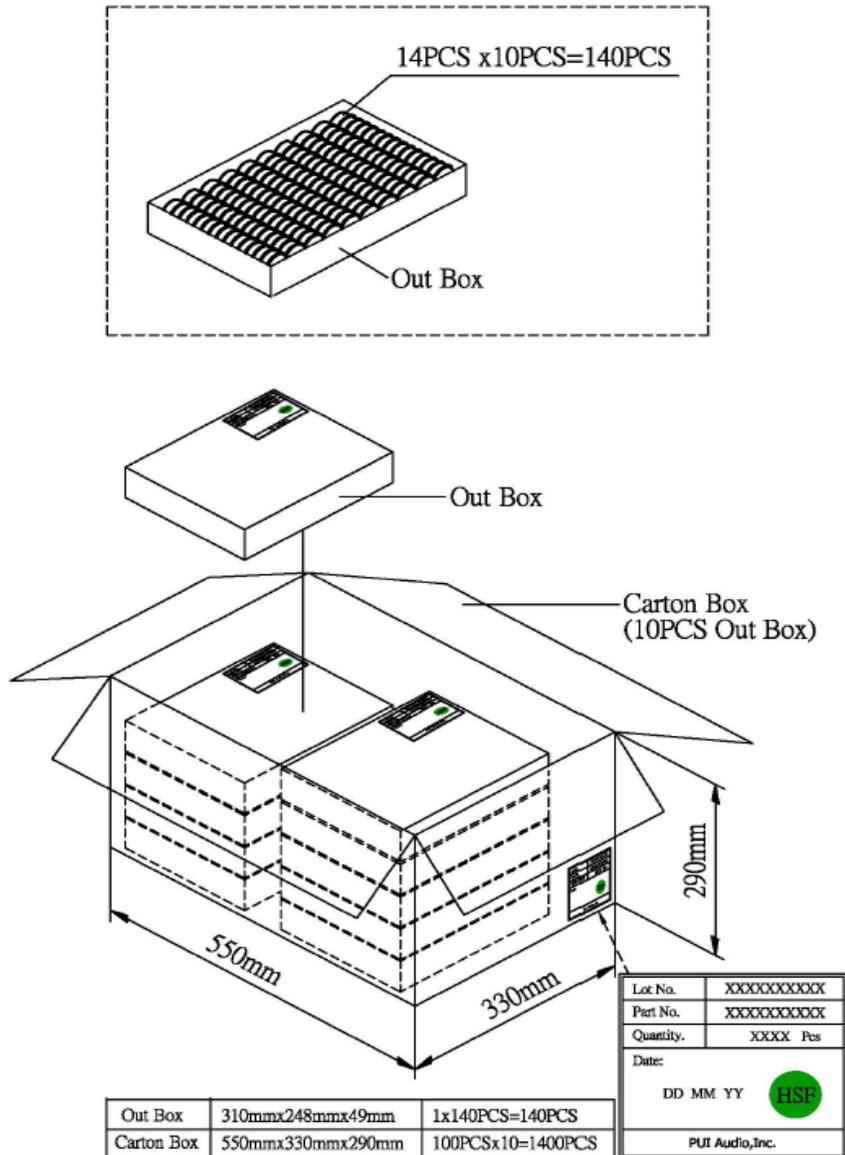
Temp Tests

No.	Item	Test Condition	Evaluation standard
1	High temp. test 高溫測試	After being placed in a chamber at $+95^{\circ}\text{C}$ for 240 hours 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. 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 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 $+40^{\circ}\text{C}$ and $90\pm 5\%$ relative humidity for 240 hours 置於 $+40^{\circ}\text{C}$, 相對濕度 $90\pm 5\%$ 環境中 240 小時	
4	Temp. cycle test 溫度循環試驗	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:  The diagram shows a temperature profile over 3 hours. It starts at -40°C, ramps up to +25°C in 0.5hr, dwells at +25°C for 0.25hr, ramps up to +95°C in 0.5hr, dwells at +95°C for 0.5hr, ramps down to +25°C in 0.5hr, dwells at +25°C for 0.25hr, and then repeats the cycle. The total duration is 3 hours.	

Dimensions



Packaging



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)