



Data Sheet	AILF-3235-TT-HT
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Features:

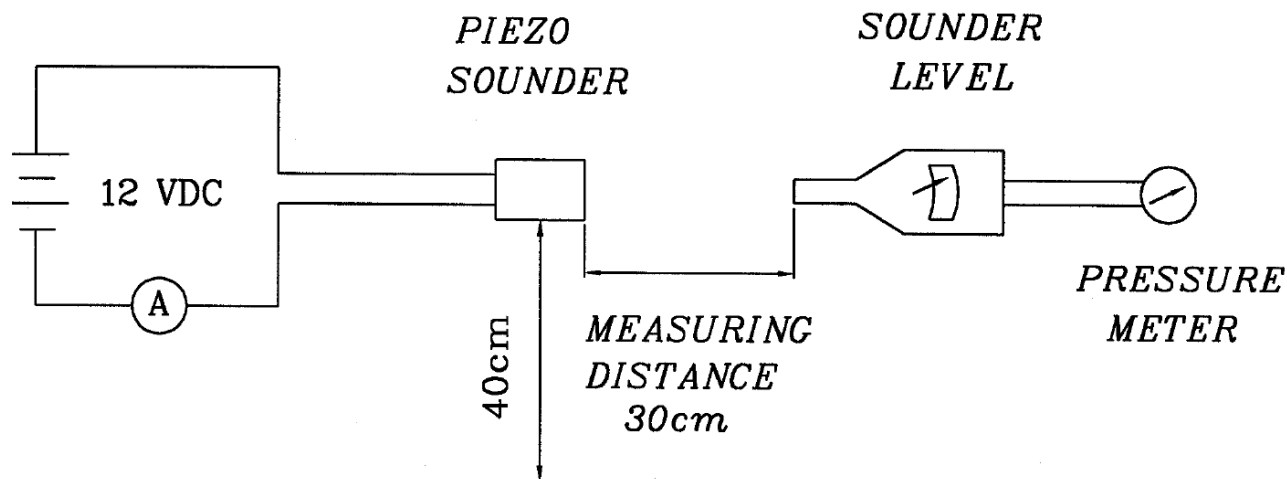
- Lead Free 32mm Piezo Audio Indicator
- 12Vdc rated voltage
- Wide operating temperature range from -30°C to 85°C

Specifications

Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 28	VDC
Current Draw at Rated Voltage	6 max.	mA
Minimum SPL @ 30cm	88	dBA
Resonant Frequency	3,500 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	Black ABS UL-94 1/16" HB HIGH HEAT	-
Terminal Material	Pin (Plating Sn)	-
Weight	7	Grams
Environmental Compliances	RoHS 2.0	Buzzer ceramics meet RoHS 2.0 lead-free requirements
Operating Temperature	-30 ~ 85	°C
Storage Temperature	-40 ~ 95	°C

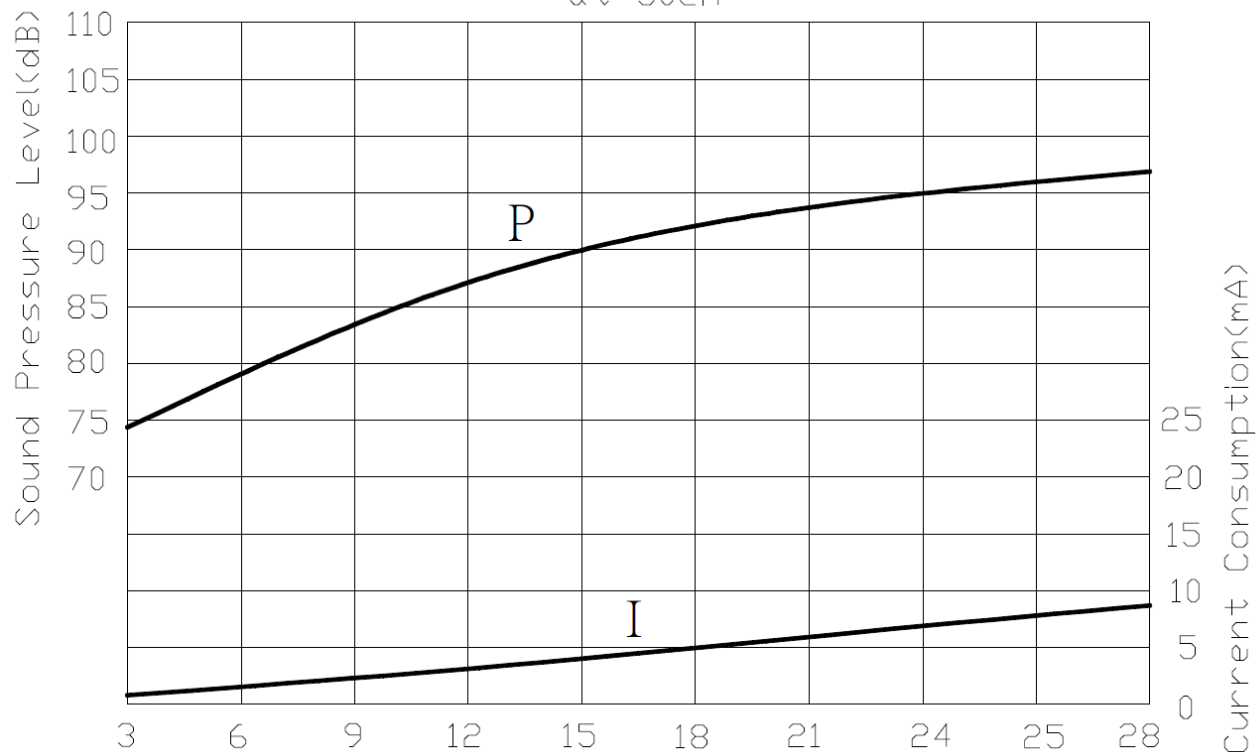
Measurement Method (Temperature: $25\pm3^{\circ}\text{C}$; Relative Humidity: 60% ~ 70%)

Standard Test Fixture (Distance: 30cm, 12VDC)

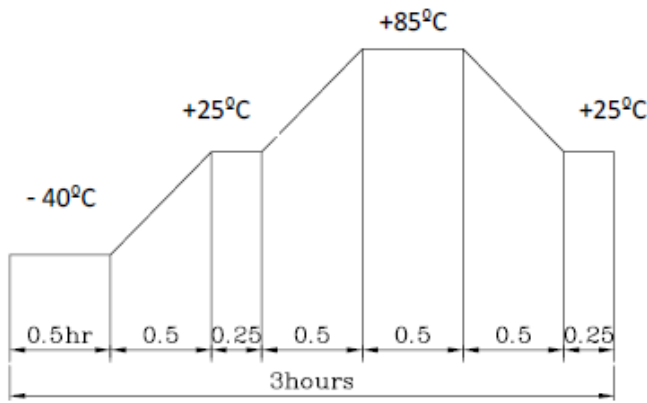


Typical SPL/Current vs Input Voltage

at 30cm

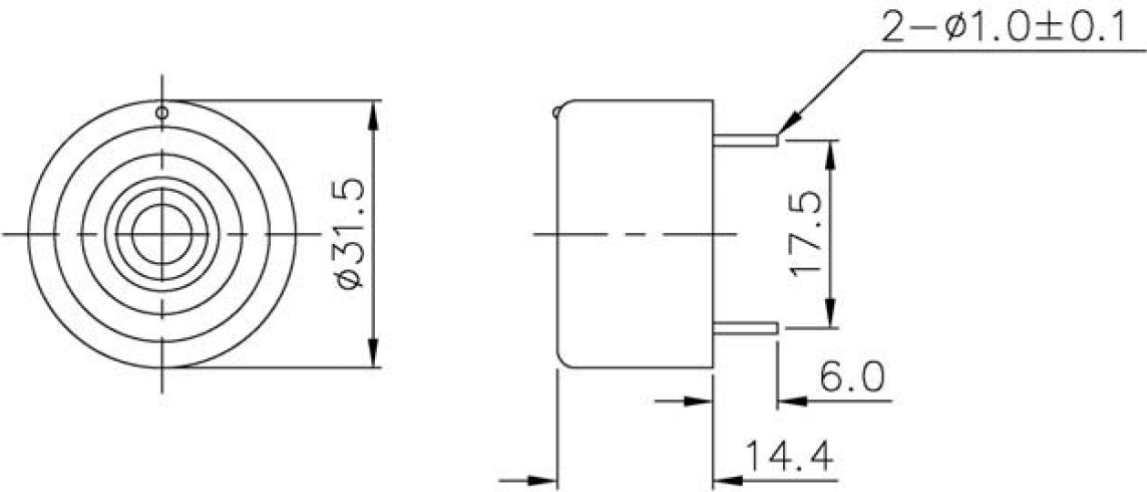


Reliability Testing

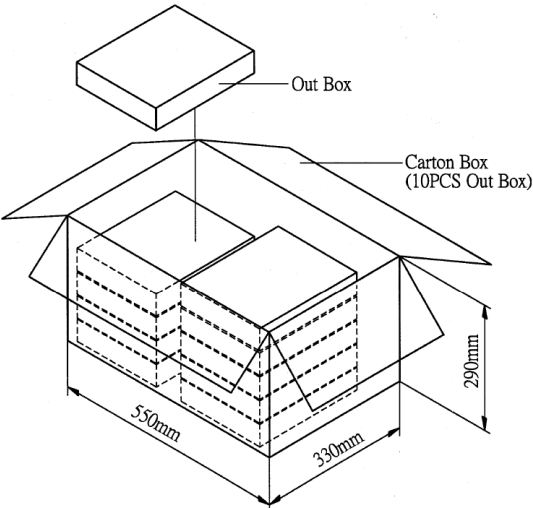
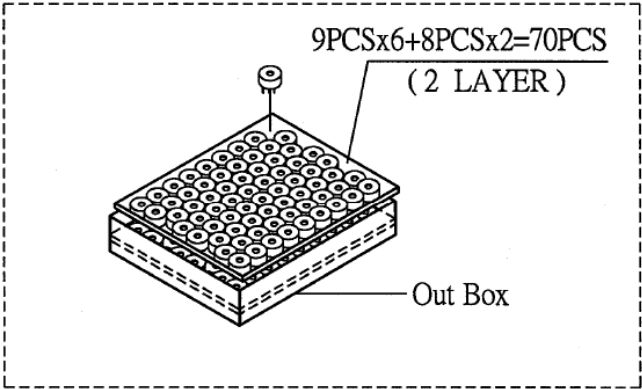
Type of Test	Test Specifications
High Temperature Test	240 hours at 95°C
Low Temperature Test	240 hours at -40°C
Humidity Test	240 hours at 40°C with relative humidity at 90±5%
Temperature Cycle Testing	<p>Run for 5 cycles with each cycle consisting of:</p>  <p>The diagram illustrates a temperature cycle profile over a 3-hour period. It starts at -40°C for 0.5 hours, then ramps up to +25°C (0.5 hours), reaches +85°C (0.25 hours), ramps down to +25°C (0.5 hours), and finally stays at +25°C for 0.25 hours. The total duration of one cycle is 3 hours.</p>
Solderability	Lead terminals immersed in rosin for 5 seconds then immersed in solder bath of +270±5°C for 3±1 seconds.
Soldering Heat Resistance	Lead terminals immersed up to 1.5mm from part's body in solder bath of +300 for 3±0.5 seconds or +260±5°C for 10±1 seconds.
Terminal Strength Pulling	9.8N (1.0kg) force applied in each axial direction (X, Y, Z) to each terminal for 10 seconds.
Vibration Test	Frequency: 10 to 55 Hz; Amplitude: 1.5mm; X, Y, Z directions 2 hours each
Drop Test	Drop on a hard wood board 4 cm thick, any direction, 6 times from a height of 75 cm.
Continuous Life Test	48 hours continuous operation at +70°C, at rated voltage.
Intermittent Life Test	1 minute on, 1 minutes off, minimum of 5000 times at +25±2°C, at rated voltage.

After each test, let rest for 4 hours, then the change in SPL shall be within ±10 dB. The value of resonant frequency/ current consumption should be in±10%

Dimensions



Packaging



Out Box	310mmx248mmx49mm	2x70PCS=140PCS
Carton Box	550mmx330mmx290mm	140PCSx10=1400PCS

Specifications Revisions			
Revision	Description	Date	Approved
A	Released from Engineering	3/4/2024	NK

- 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.