

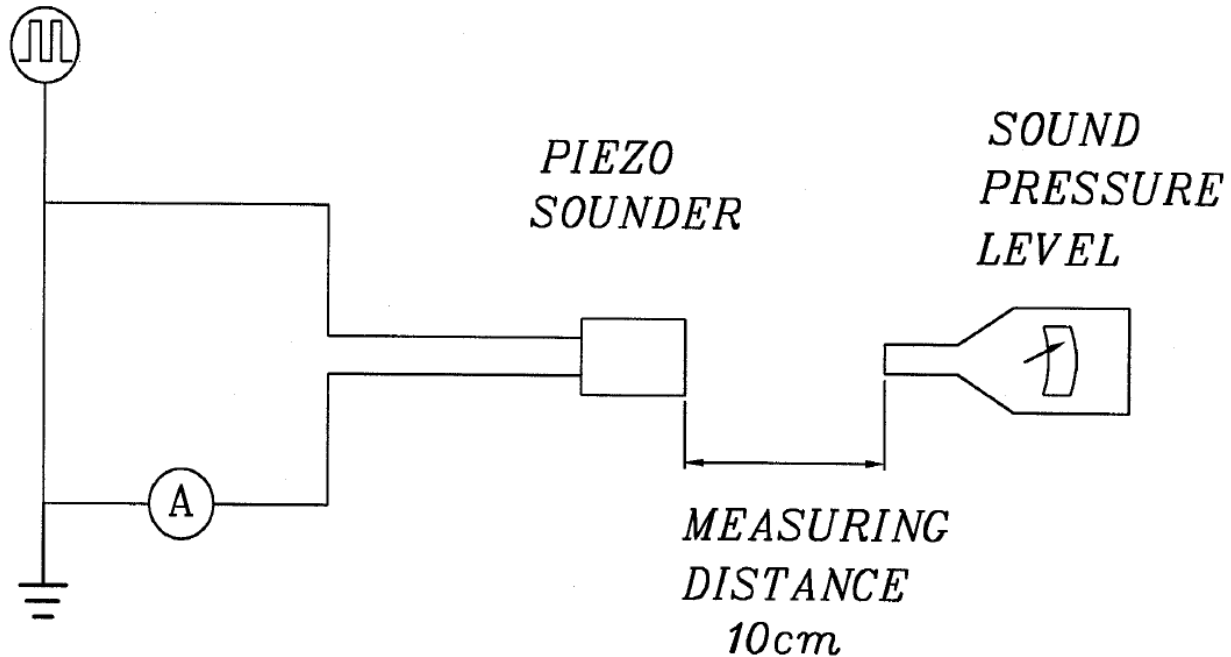


Data Sheet SMT-1227-T

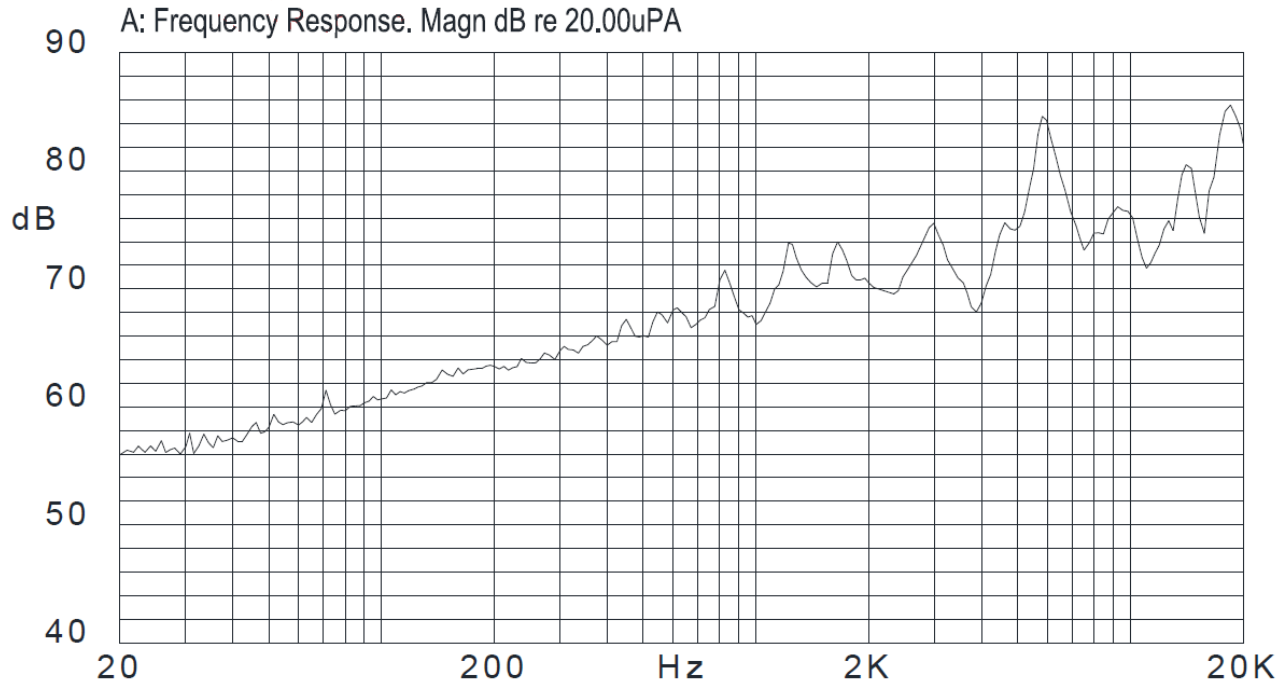
Specifications

Parameters	Values	Units
Rated Voltage	3	Vp-p
Operating Voltage Range	3 ~ 25	Vp-p
Resonant Frequency	2.7	kHz
Current Draw at Rated Voltage	5	mA
Capacitance	20,000 ± 30%	pF
Minimum SPL @ 10cm	67	dBa
Housing Material	LCP	-
Terminal Material	SMD	-
Weight	0.4	Grams
Acceptable Soldering Methods	Reflow Solder	See page 3 for soldering information
Environmental Compliances	RoHS/REACH	7c-1 exempt
Moisture Sensitivity Level	2a	-
Storage Temperature	-40 ~ 120	°C
Operating Temperature	-40 ~ 120	°C

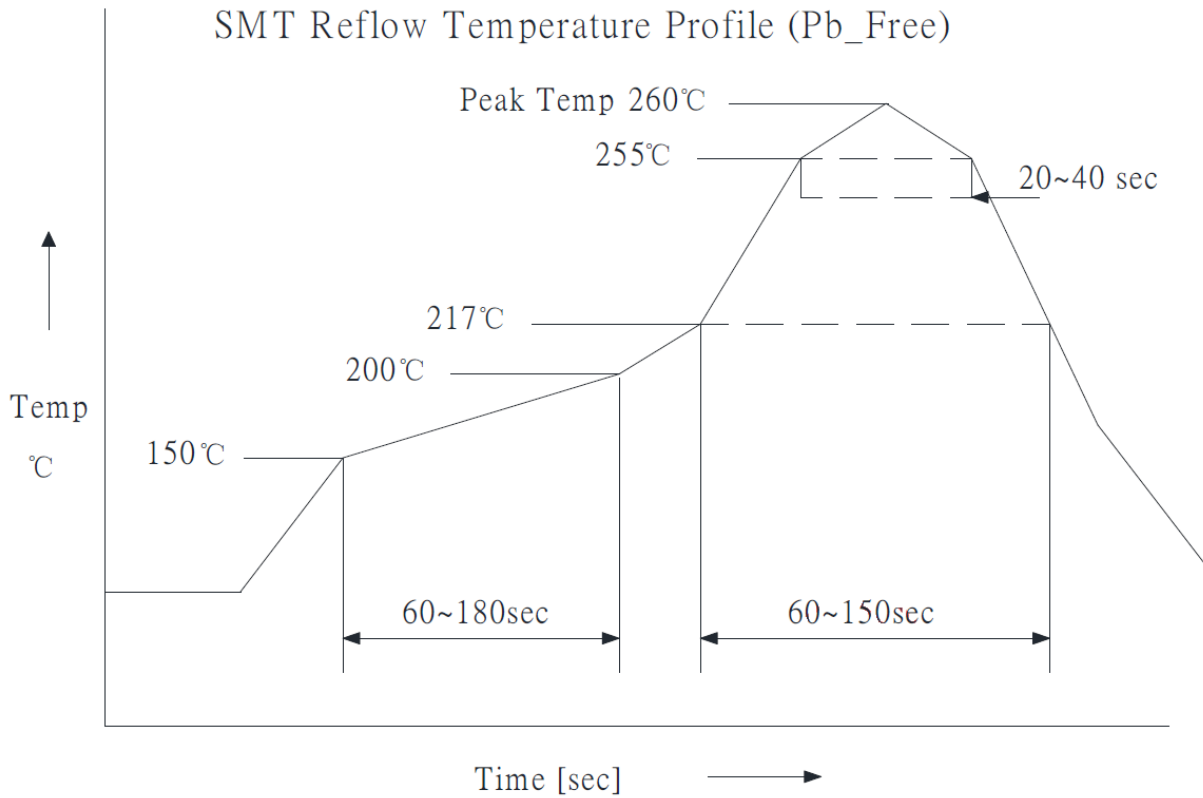
Measurement Method (3.0Vp-p, 2.7kHz, Square Wave)



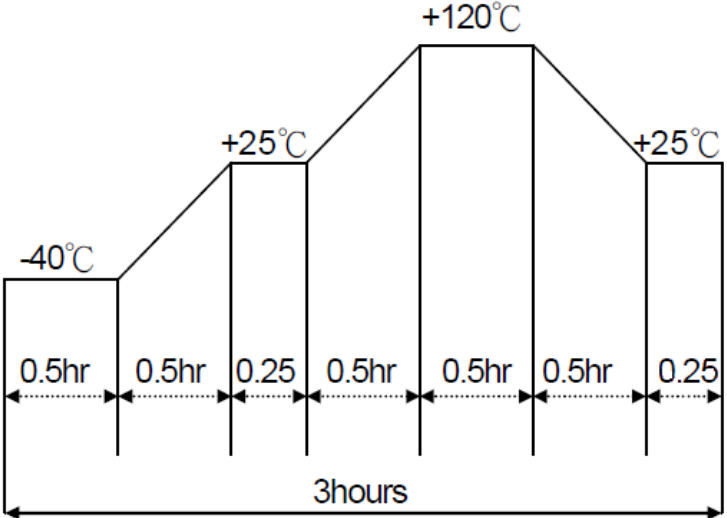
Typical Frequency Response (3.0Vp-p, 2.7kHz, Square Wave)



Recommended Soldering Procedure

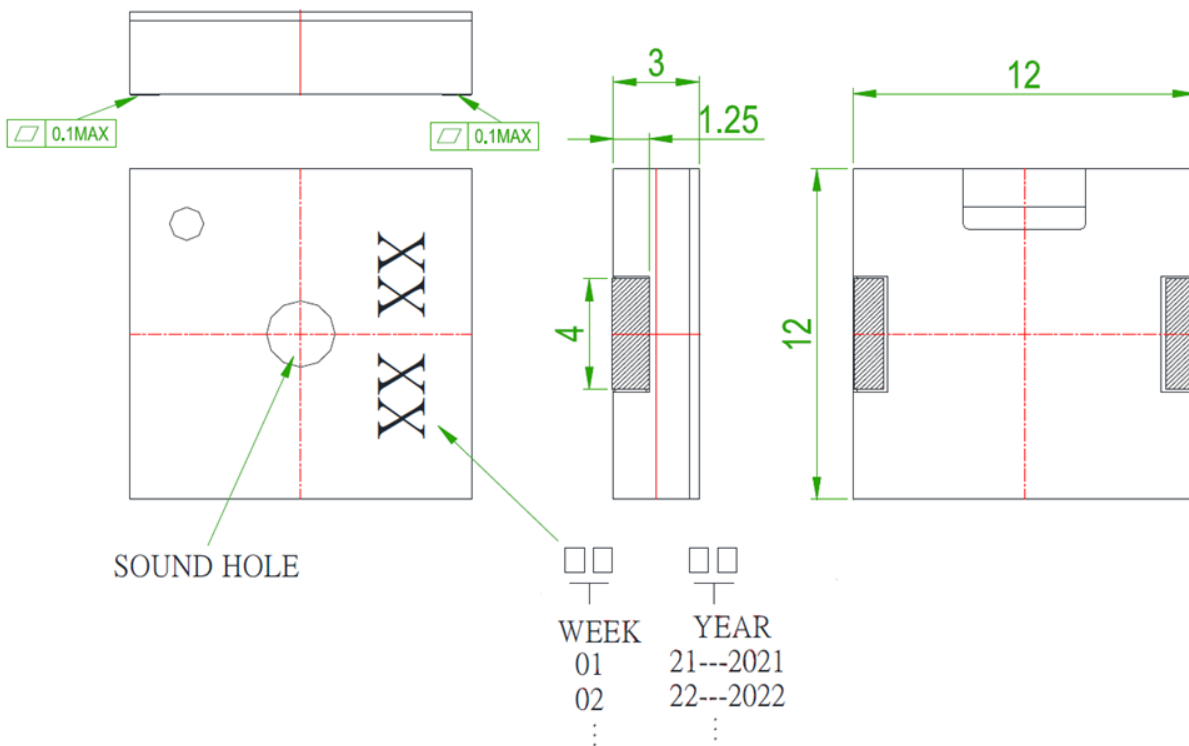


Reliability Testing

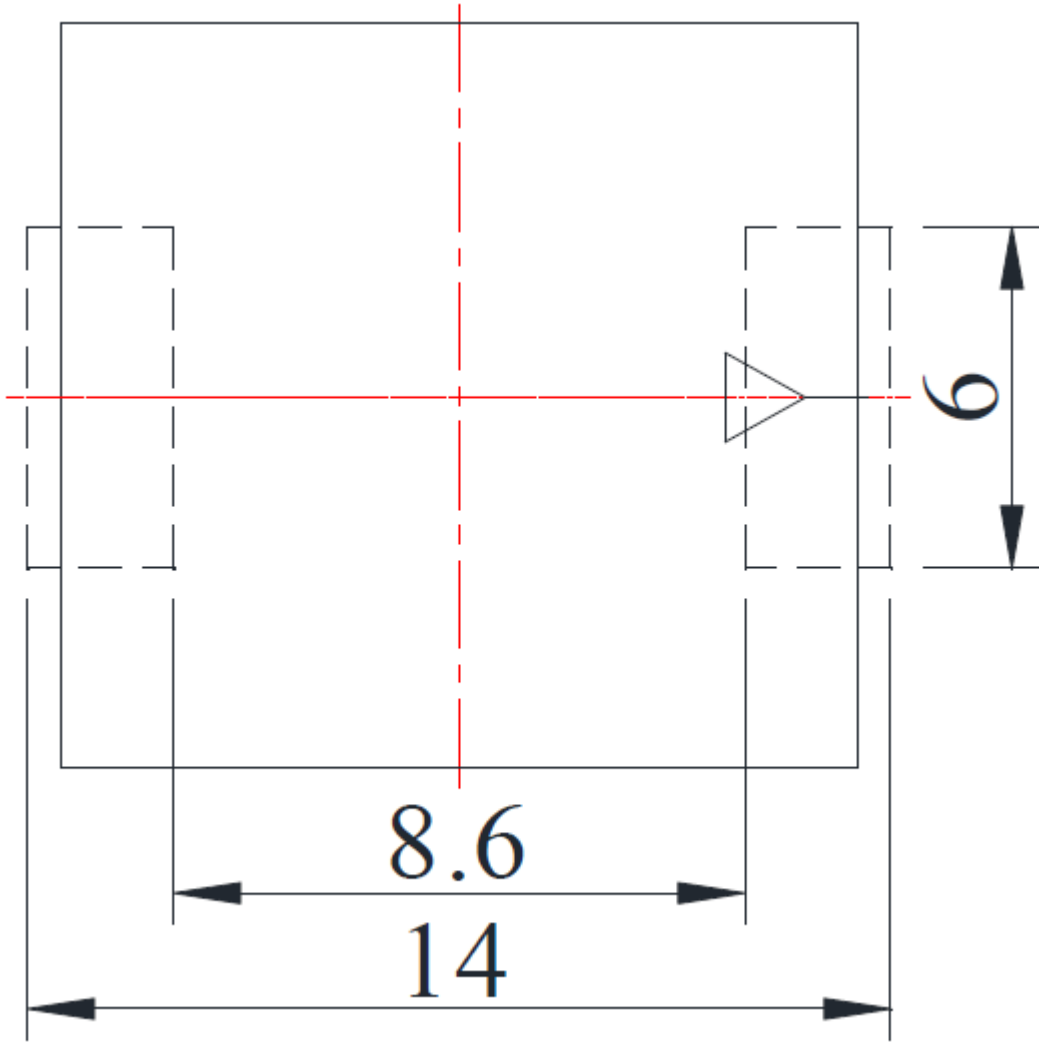
Type of Test	Test Specifications
High Temperature Test	240 hours at 120°C
Low Temperature Test	240 hours at -40°C
Humidity Test	240 hours at 40°C with relative humidity at 85~95%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: 
Load Test	48 hours continuous operation at +70°C with rated voltage applied

After each test, let the part rest for 4 hours and then the SPL should be within $\pm 10\text{dB}$ of initial

Dimensions (tolerance: $\pm 0.3\text{mm}$)

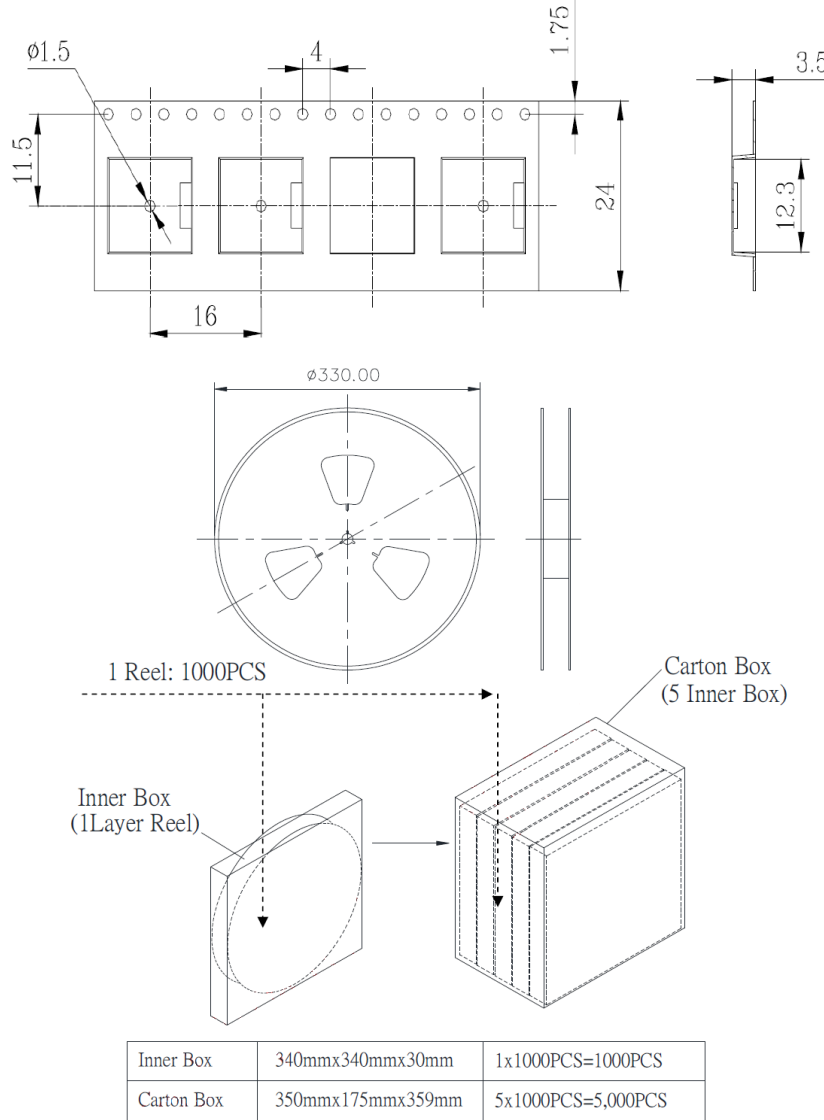


Suggested Land Pattern*



*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	12/16/2022
B	Updated Reliability Testing and Packaging	3/23/2023
C	Updated dimension tolerance	4/6/2023
D	Updated capacitance	6/6/2023

Note:

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