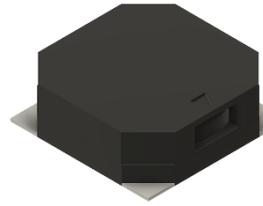




PUI audio



Data Sheet

SMT-0823-S-HT

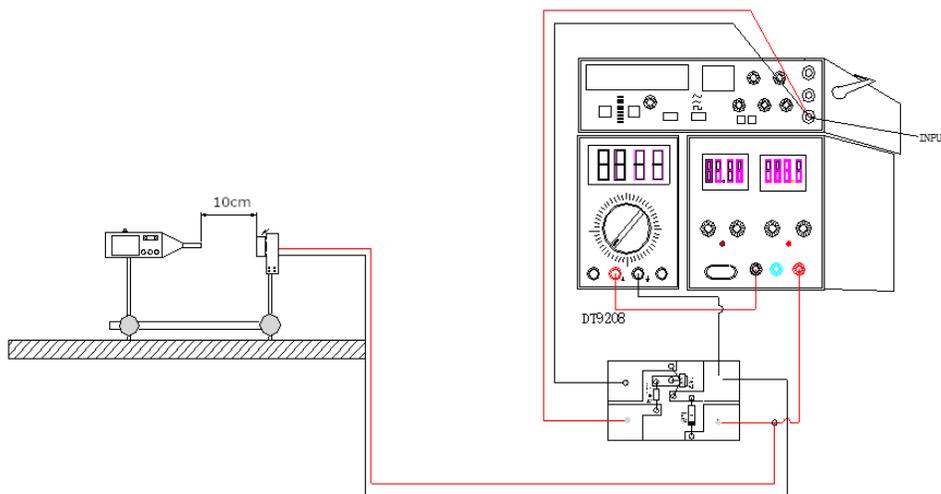
Features:

- 7.5mm x 7.5mm electromagnetic transducer
- Surface mount and 2.5mm height for low profile easy installation
- Wide operating temperature range up to 85°C and as low as -40°C
- 80dB @ 3.6V (0 to peak)
- Resonant frequency of 2,500 Hz

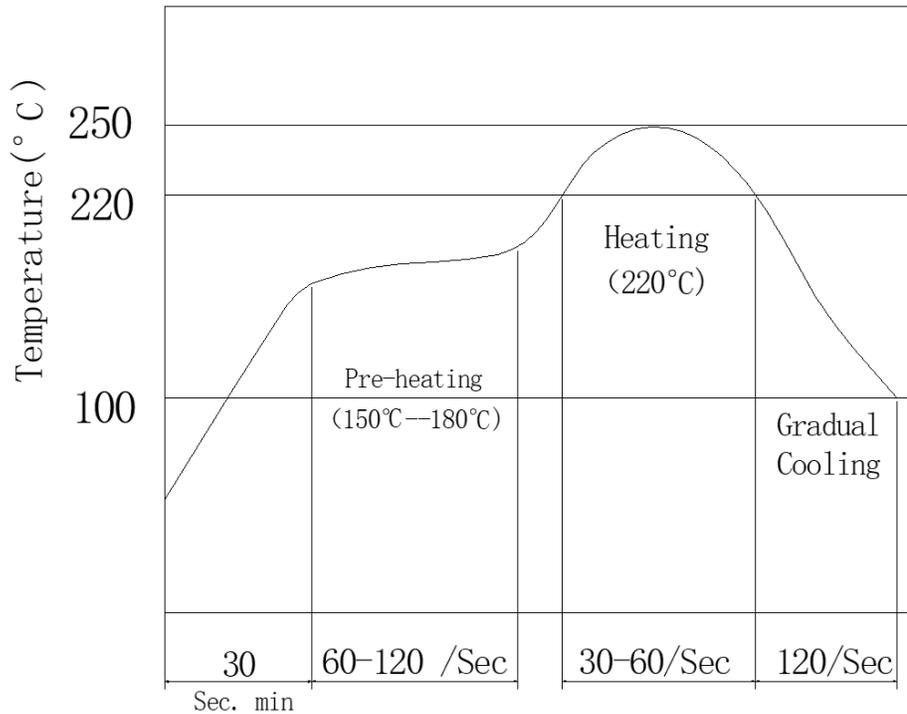
Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.4 ~ 4.5	V0-pk
Current Draw at Rated Voltage	100	mA
Coil Resistance	16 ± 3	Ohms
Minimum SPL @ 10cm	80	dBA
Resonant Frequency	2,500	Hz
Housing Material	LCP	-
Terminal Material	Brass	-
Weight	0.5	Grams
Acceptable Soldering Methods	Reflow Solder	See page 3 for soldering information
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ 85	°C
Operating Temperature	-40 ~ 85	°C

Measurement Method (3.6V, 2.5kHz)



Recommended Soldering Procedure

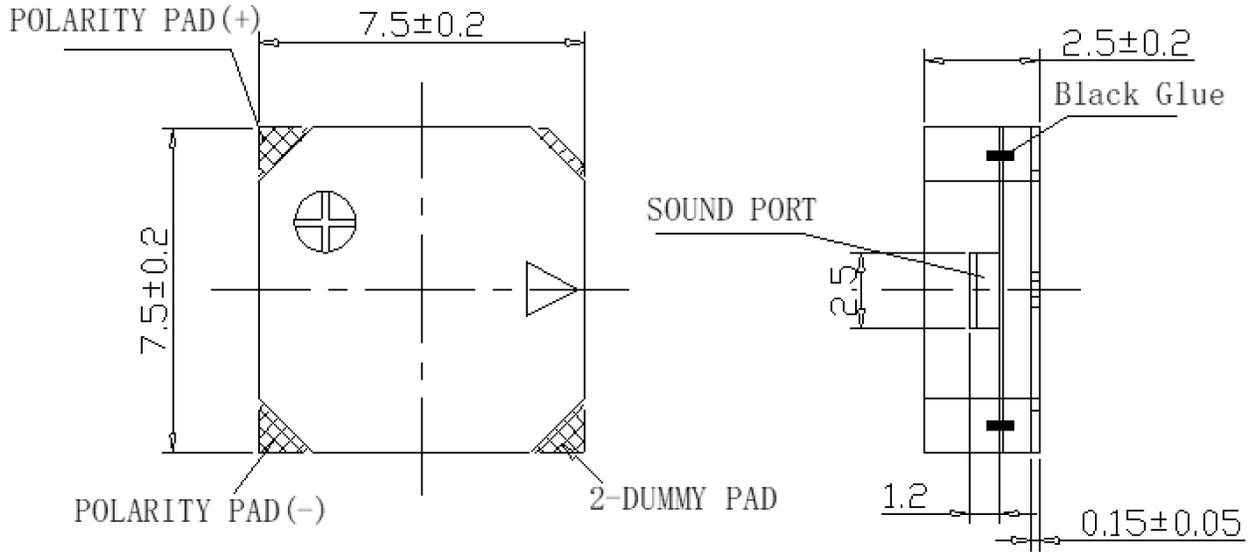


Reliability Testing

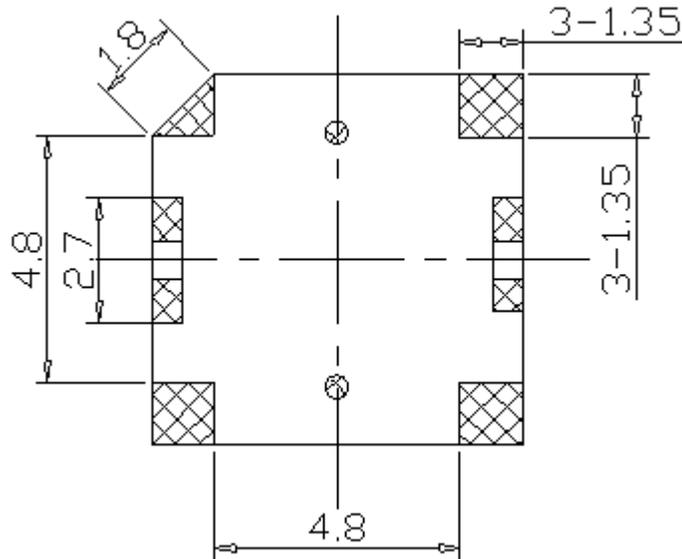
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C
Low Temperature Test	96 hours at -40°C
Humidity Test	96 hours at 40°C with relative humidity at 90~95%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of:
Vibration Test	Run in each of the X, Y, Z for 2 hours each
Drop Test	Free drop a unit from the height 100cm to the surface of 10mm thick board, three directions(X,Y,Z).

After each test, let rest for 2 hours then the change in SPL shall be within ±5dB

Dimensions

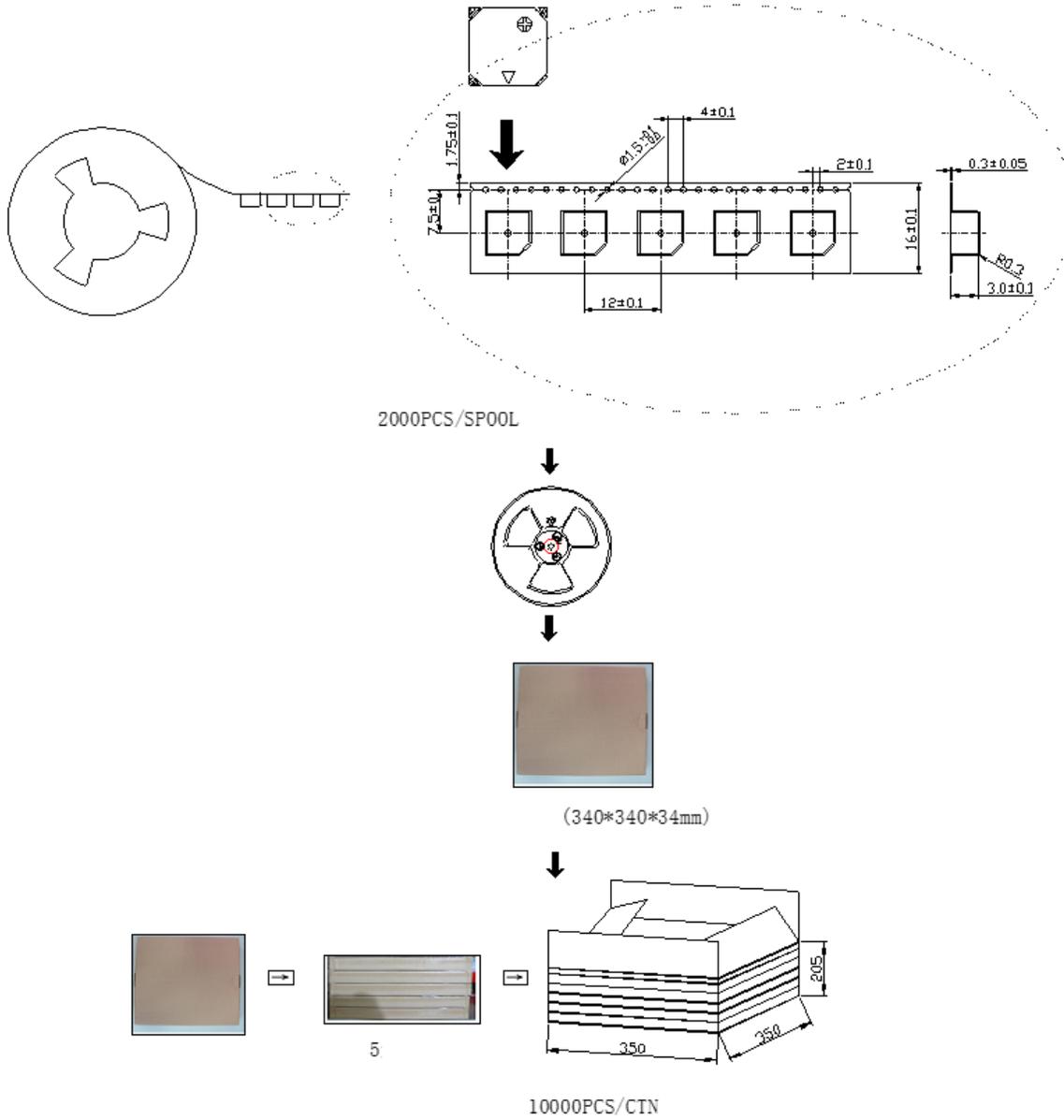


Suggested Land Pattern*



*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	11/30/2023

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.