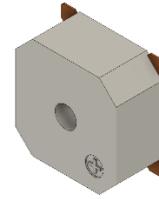




PUIaudio



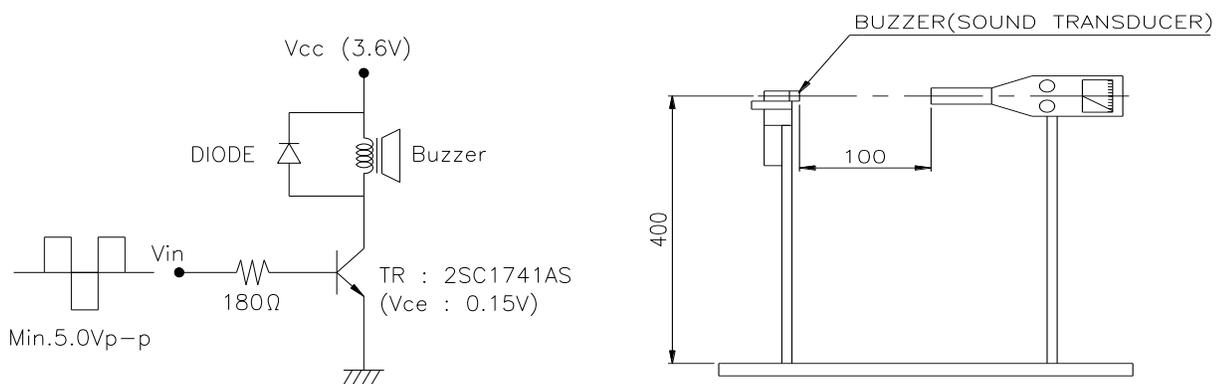
Data Sheet

SMT-0927-T-3-R

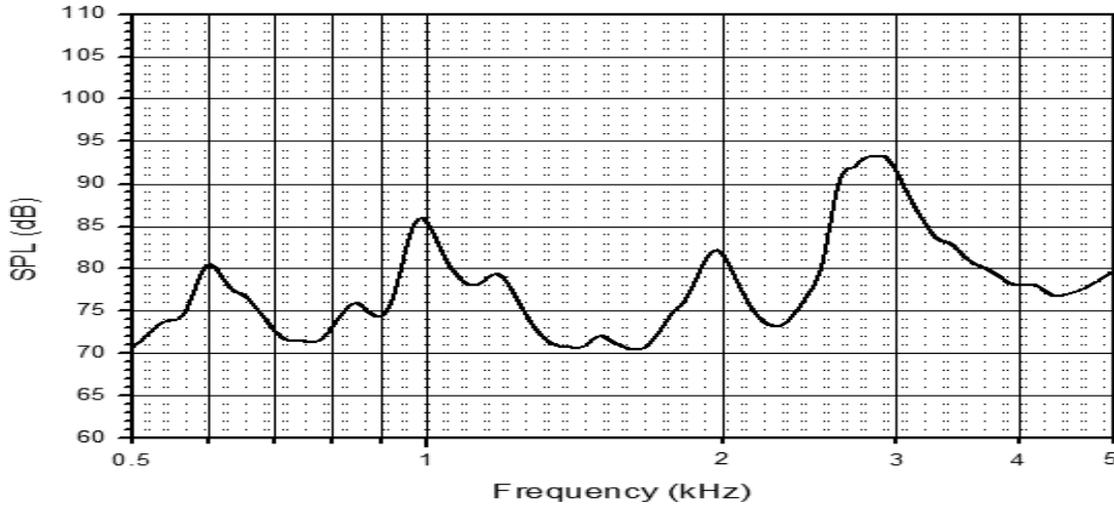
Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 ~ 4.5	V0-pk
Current Draw at Rated Voltage	45	mA
Coil Resistance	52 ± 3.5	Ohms
Minimum SPL @ 10cm	87	dBA
Resonant Frequency	2,731 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn plated Brass	-
Weight	0.4	Grams
Environmental Compliances	RoHS/REACH	-
Moisture Sensitivity Level (MSL)	2	-
Storage Temperature	-40 ~ 85	°C
Operating Temperature	-40 ~ 85	°C

Measurement Method (Temp: 5 ~ 35 °C; Humidity: 45 ~ 85%; Atmosphere: 860 ~ 1060hPa)



Typical Frequency Response (3.6Vpk square wave sweep @ 10cm)

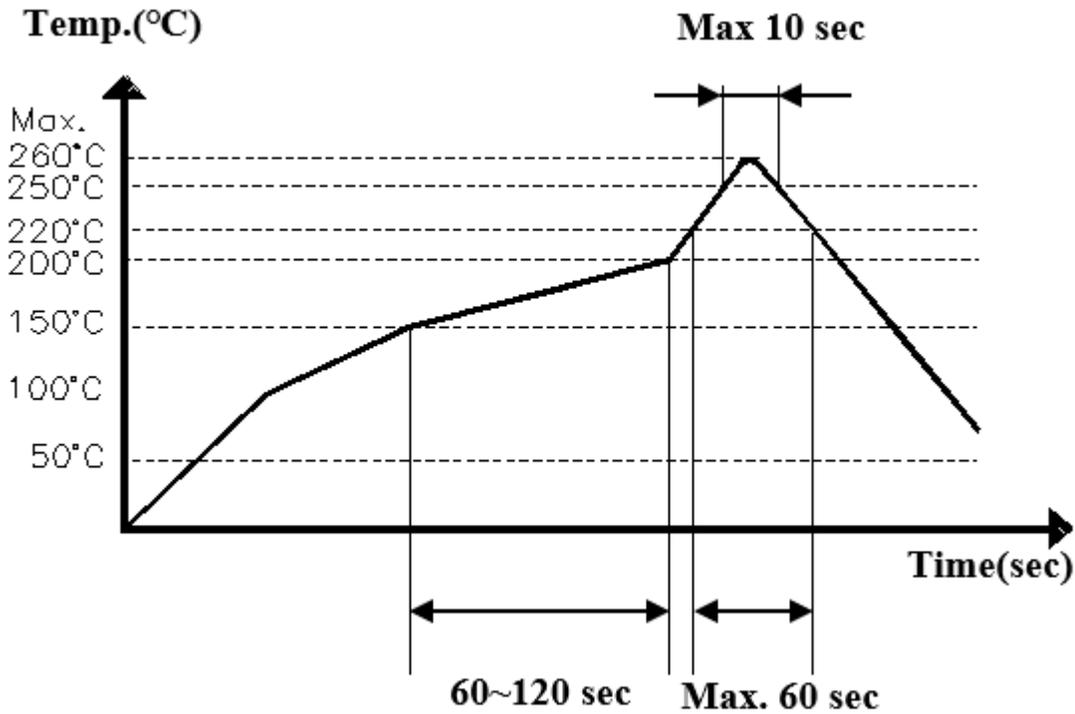


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C
Low Temperature Test	96 hours at -40°C
Humidity Test	12 hours at 60°C with relative humidity at 95%
Humidity Cycle Test	Perform 10 cycles of the following test
Temperature Cycle Testing	Run the test for 5 cycles, with each cycle consisting of:
Vibration Test	<p>Make this test for the directions of X, Y and Z. for 2 hours each (total 6 hours).</p>
Drop Test	Fix transducer on PCB with polyester film (t=0.2mm, gross weight: 100g) and the height of 120cm on each of the six surfaces 3 times each.

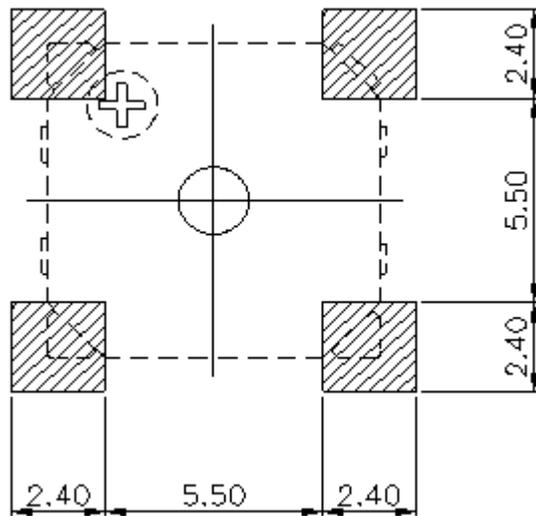
After reliability tests, let rest for 2 hours before testing. SPL shall be within ± 5 dB.

Recommended Reflow Profile

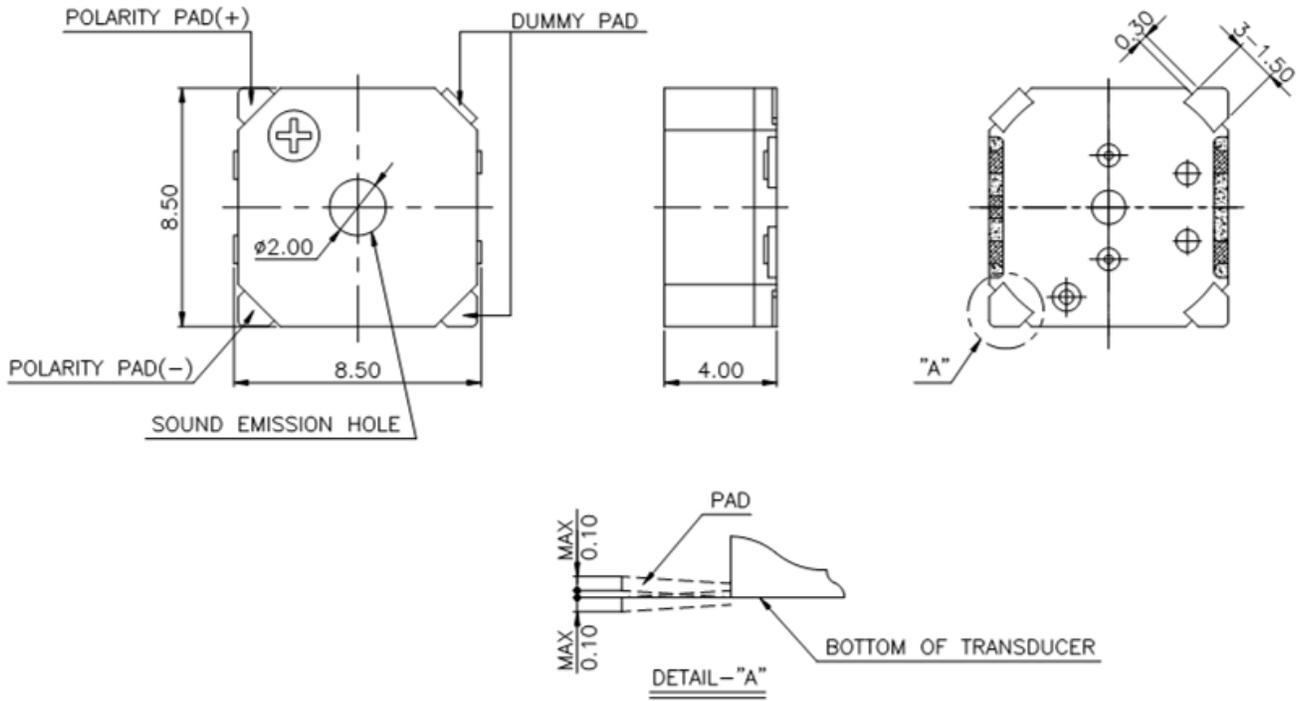


***Manual Soldering Iron Temperature 350C, Solder Time within 5 seconds.**

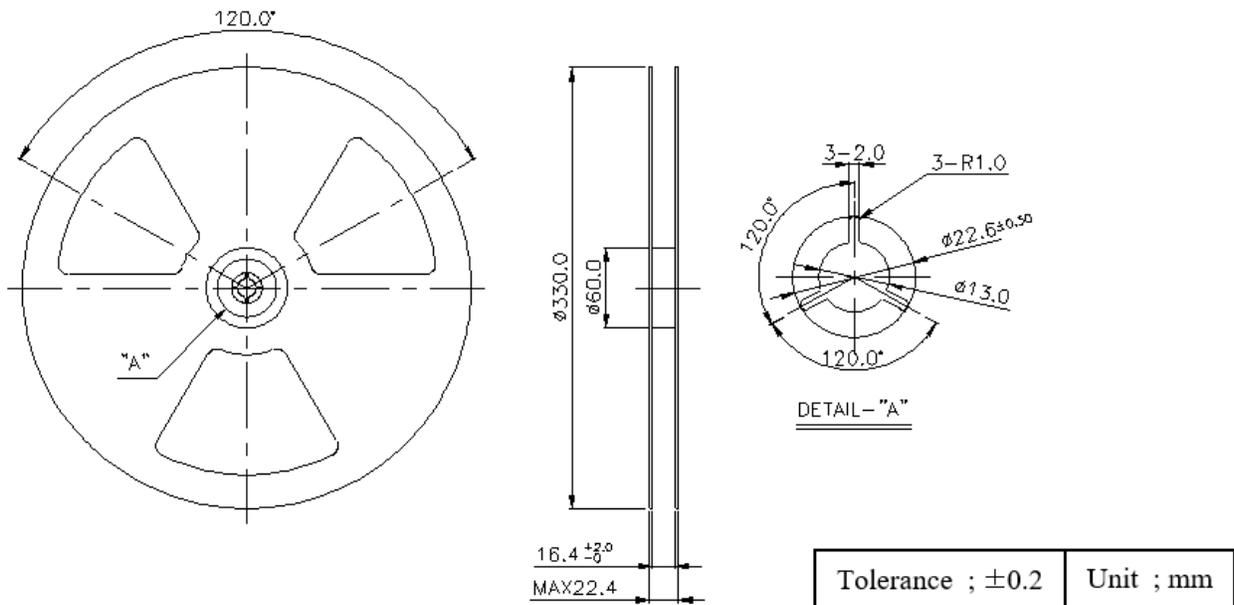
Recommended Land Pattern

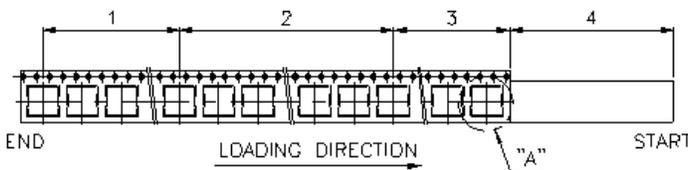
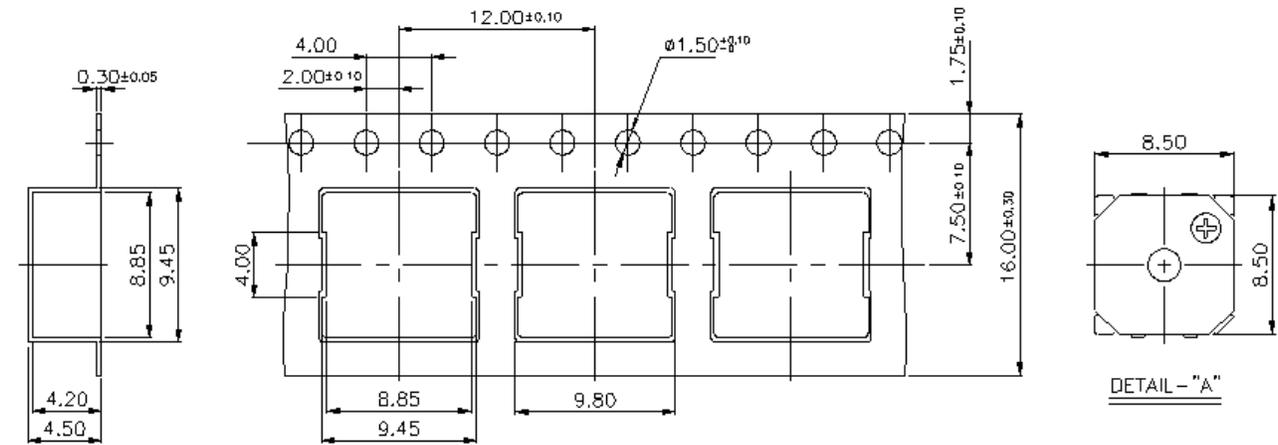


Dimensions (Tolerance: $\pm 0.2\text{mm}$ unless otherwise specified)

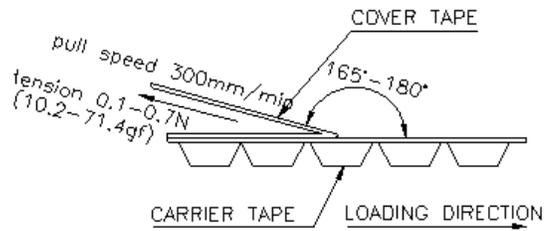


Packaging

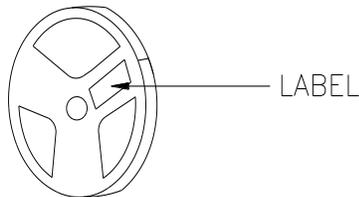




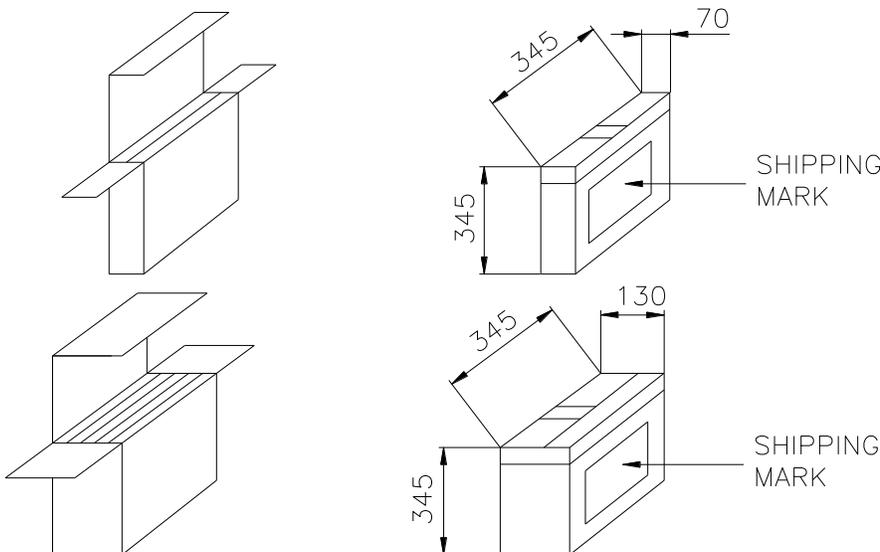
1. BARE EMBOSS AREA : 400mm OVER(35PCS OVER)
2. CHIP MOUNT AREA : 1,000PCS
3. BARE EMBOSS AREA : 400mmOVER(35PCS OVER)
4. LEADER AREA : 100mm OVER



1000pcs per reel



2 reels per box or 5 reels master carton



Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	07/25/2022	-
B	Updated Operating Temperature	04/18/2023	-
C	Add V0-pk to units, Add details for Packaging, Reliability, etc. Add MSL 2	02/13/2025	ML

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.