



PUI audio

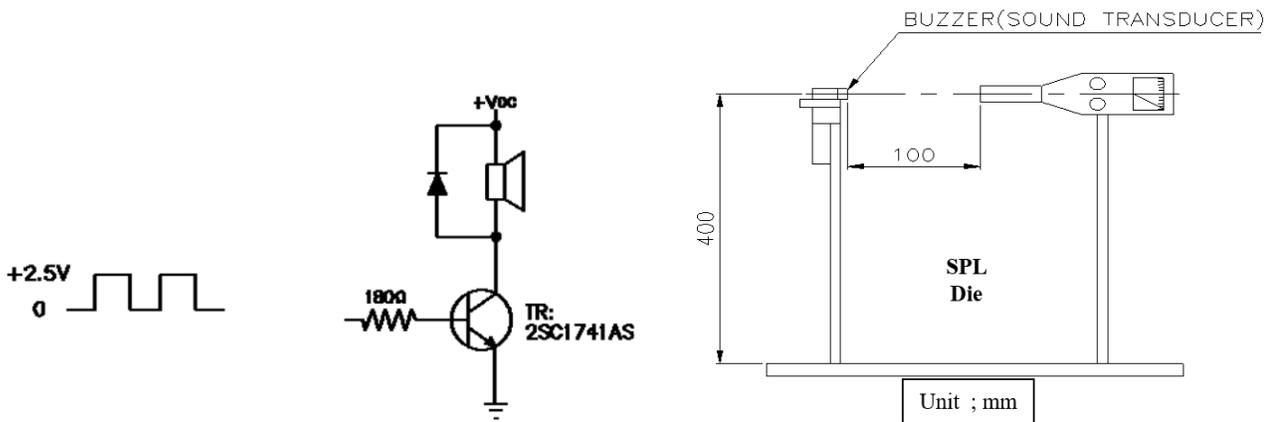


Data Sheet	SMT-1427-T-R
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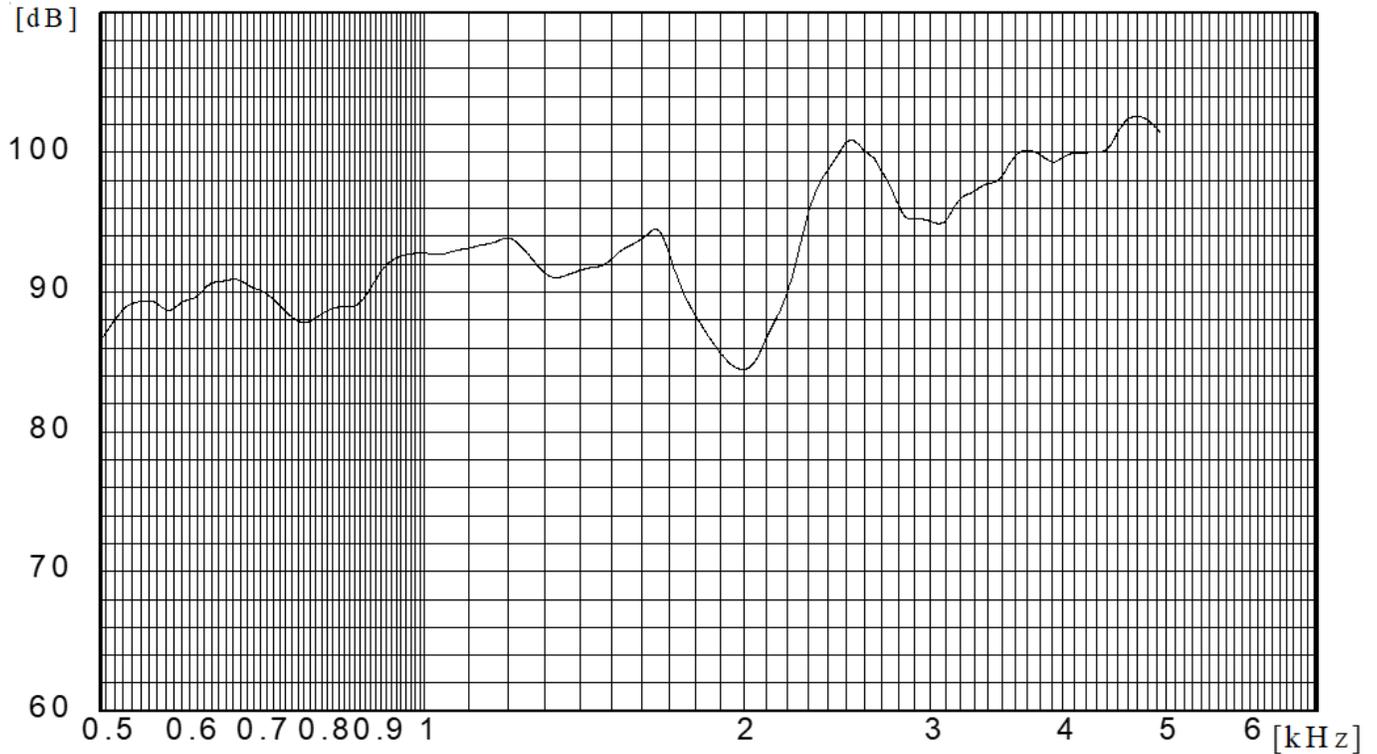
Specifications

Parameters	Values	Units
Rated Voltage	5	Vpk
Operating Voltage Range	3 ~ 7	Vpk
Current Draw at Rated Voltage	80 max.	mA
Coil Resistance	30 ± 4.5	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2700 ± 500	Hz
Housing Material	PPS	-
Terminal Material	Sn plated Phosphor Bronze	-
Weight	0.7	Grams
Moisture Sensitivity Level (MSL)	-	-
Acceptable Soldering Methods	Reflow/Manual	See Details
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +60	°C

Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%)
 Standard Test Fixture (Distance: 10cm, 5Vpk, 2700Hz square wave)

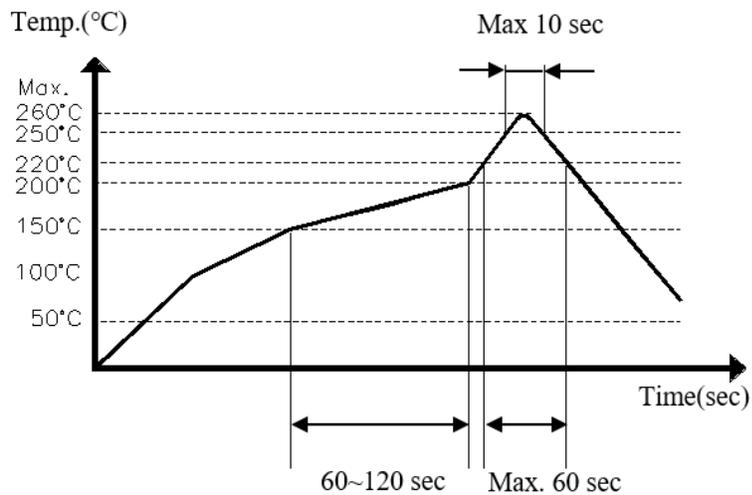


Typical Frequency Response



Recommended Reflow Profile

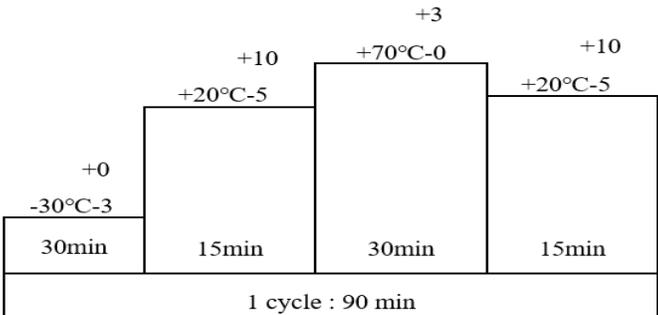
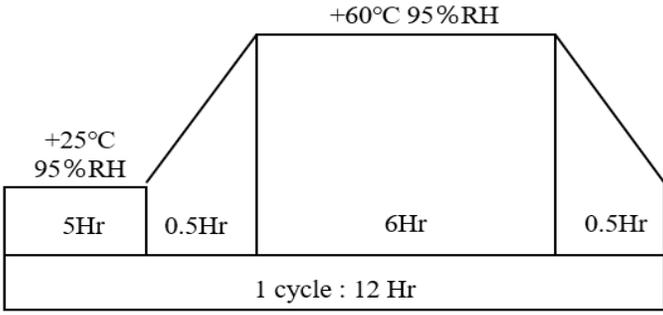
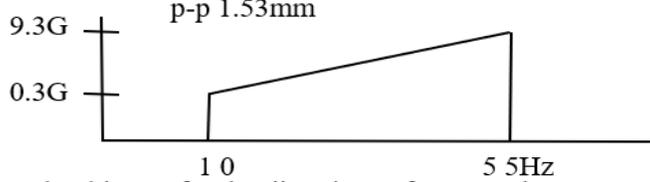
- Recommendable reflow soldering condition is as follows.
- Note 1; It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.
- Note 2; Peak reflow temperature of 260°C, with a maximum duration of 60 sec. between 220°C and 260°C



* Reflow profile of lead-free solder

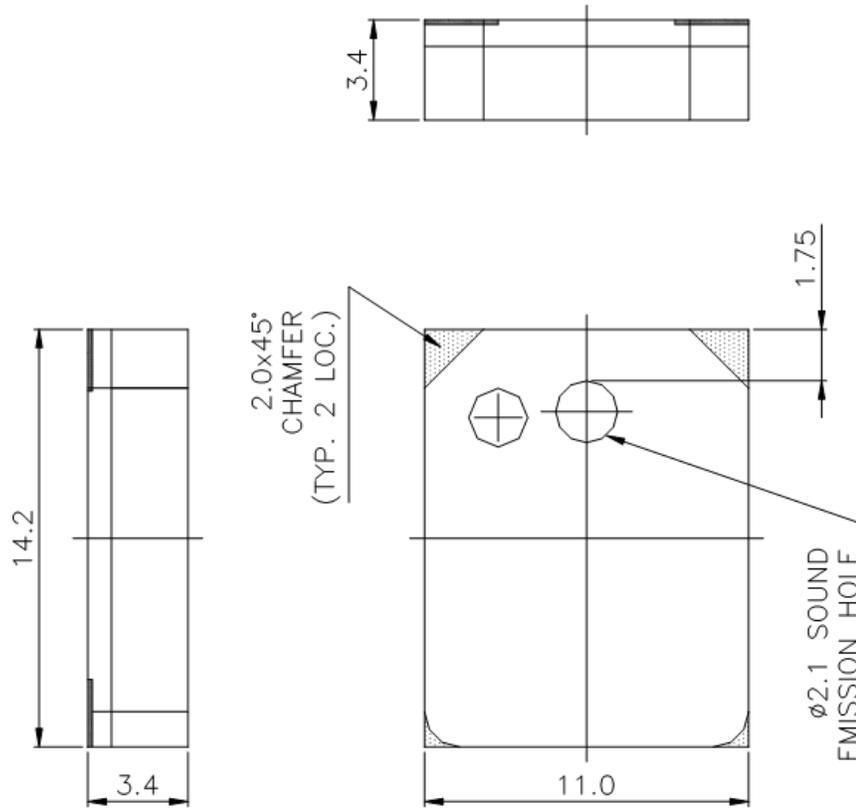
***Manual Solder - Iron Temp 350C and solder time 2-3sec per terminal.**

Reliability Testing

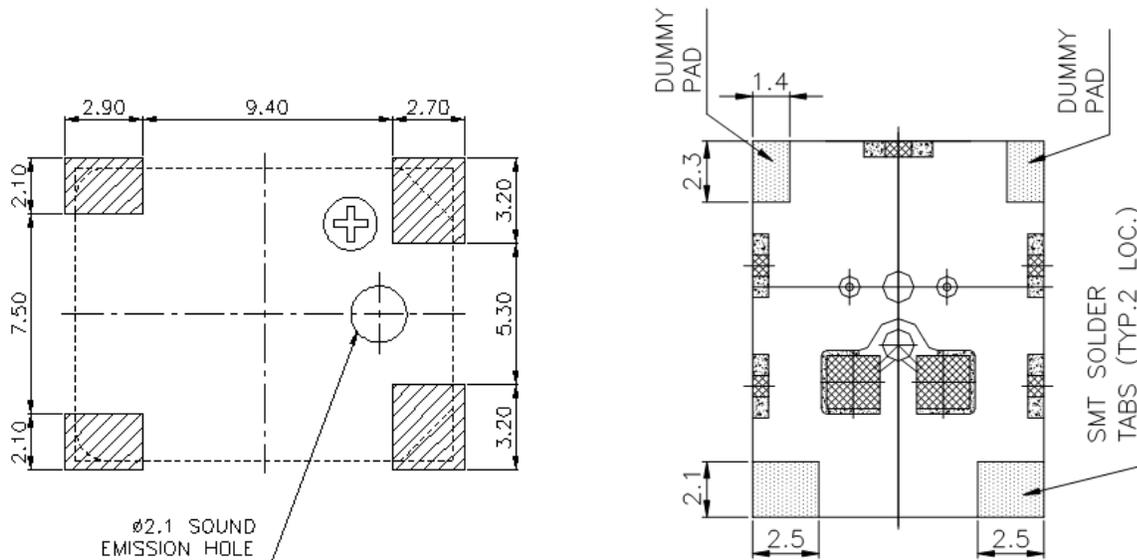
Type of Test	Test Specifications
High Temperature Test	Store at 85C for 96hrs. Then rest at room temperature for 2hrs.
Low Temperature Test	Store at -40C for 96hrs. Then rest at room temperature for 2hrs.
Thermal Shock	Subjected to 5 cycles of the below cycle;  <p>The diagram shows a thermal shock cycle with four temperature levels: +0, +10, +70°C-0, and +10. The durations for each level are 30min, 15min, 30min, and 15min respectively. The total duration of one cycle is 90 minutes.</p>
Humidity Cycle Test	Subjected to 10 cycles of the below cycle;  <p>The diagram shows a humidity cycle with four stages: +25°C 95%RH (5Hr), a ramp up (0.5Hr), +60°C 95%RH (6Hr), and a ramp down (0.5Hr). The total duration of one cycle is 12 hours.</p>
Vibration Test	 <p>The diagram shows a vibration test profile with a peak-to-peak amplitude of 1.53mm. The acceleration levels are 0.3G and 9.3G. The frequency range is from 1 Hz to 5 Hz. The test is performed for 2 hours in each of the X, Y, and Z directions, totaling 6 hours. The to-and-fro sweep time is 1 minute.</p>
Drop Test	Affix to PCB and drop from height of 120cm onto each surface 3 times.

Part shall be within ± 5dB after testing.

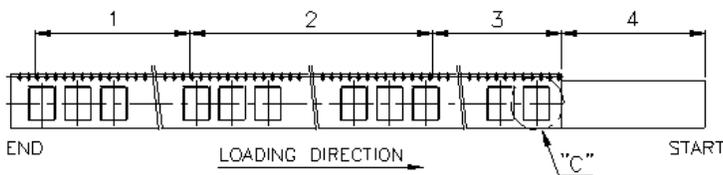
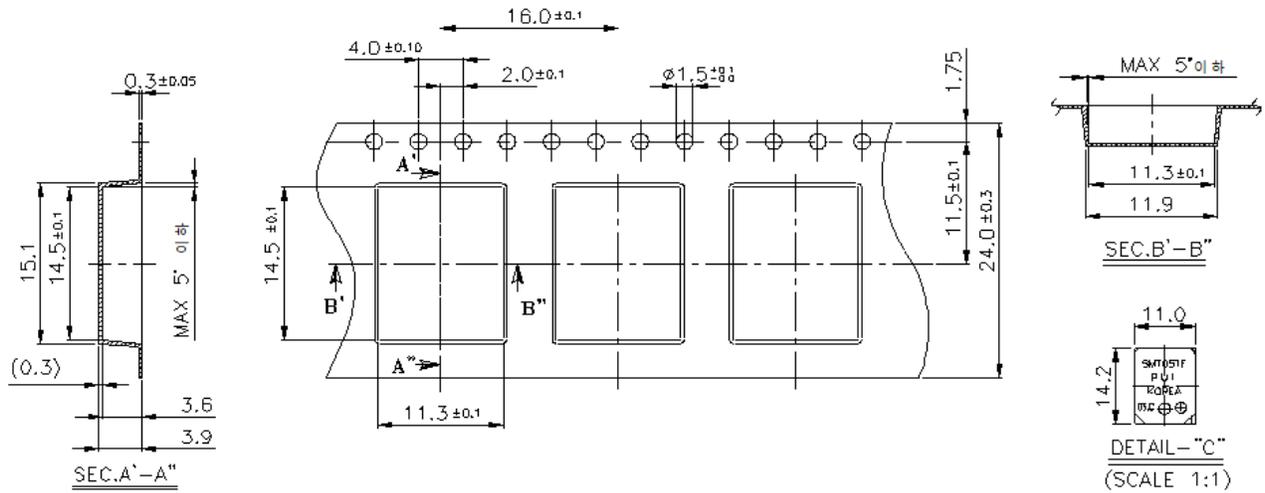
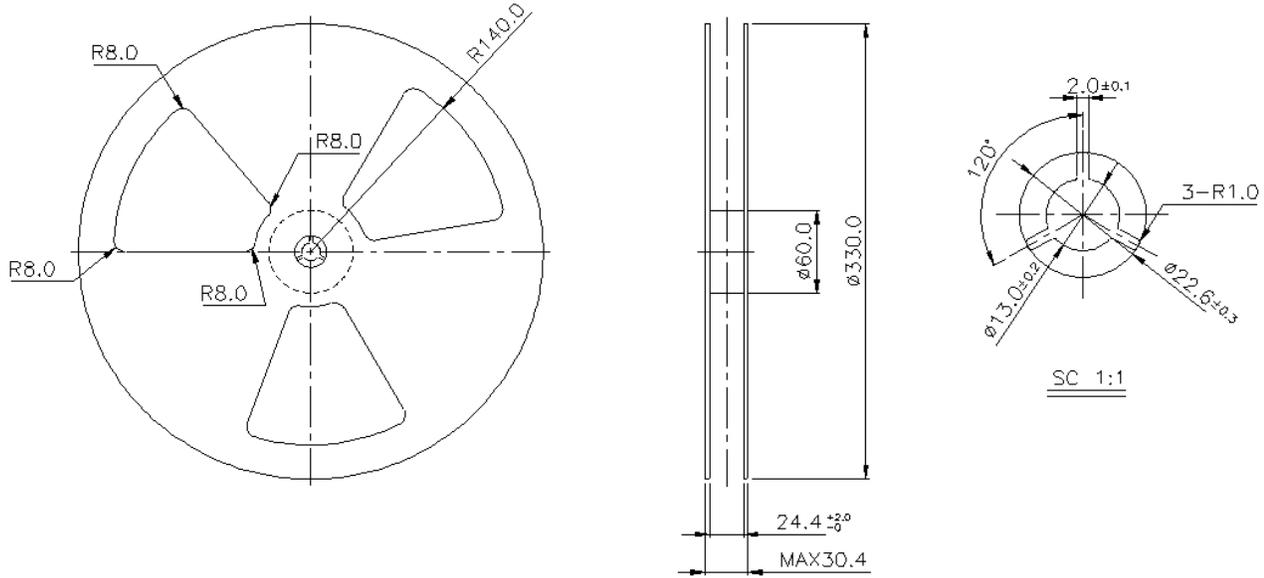
Dimensions (Tolerance $\pm 0.2\text{mm}$ unless otherwise stated)



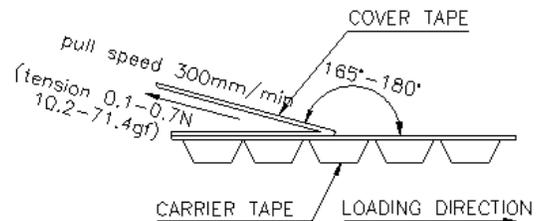
Recommended Land Pattern



Packaging

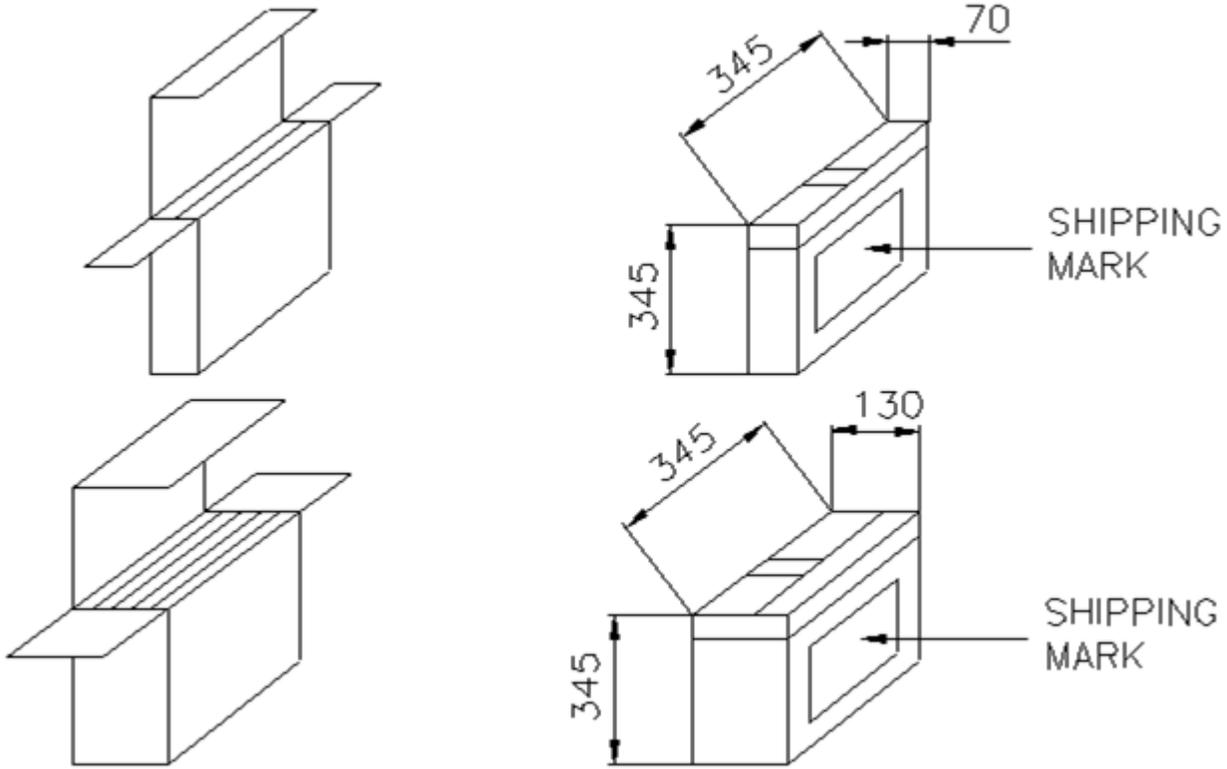


1. BARE EMBOSS AREA : 400mm OVER(35PCS OVER)
2. CHIP MOUNT AREA : 1,000PCS
3. BARE EMBOSS AREA : 400mm OVER(35PCS OVER)
4. LEADER AREA : 100mm OVER



Packaging

1000pcs per reel
 2 reels or 4 reels per carton



Specifications Revisions

Revision	Description	Date
-	RELEASED FROM ENGINEERING	05/04/2006
A	REVISED TO 3D TEMPLATE	05/11/2010

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.