

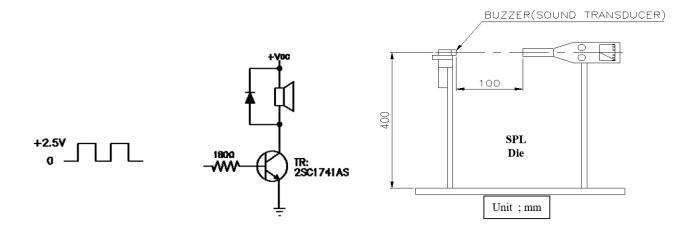
Data Sheet

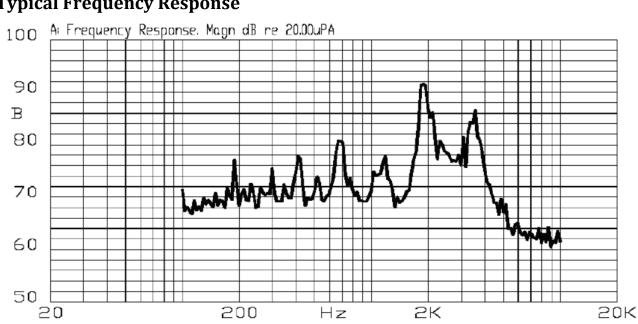
SMT-1220-TW-R-T/R

Specifications

Parameters	Values	Units
Rated Voltage	3.0	Vpk
Operating Voltage Range	2 ~ 5	Vpk
Current Draw at Rated Voltage	35 max.	mA
Coil Resistance	47 ± 15%	Ohms
Minimum SPL @ 10cm	80	dBA
Resonant Frequency	2000 ± 200	Hz
Housing Material	PPS	-
Terminal Material	Au Plated Brass	-
Weight	1.6	Grams
Moisture Sensitivity Level (MSL)	2	-
Acceptable Soldering Methods	Reflow/Manual	See Details
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-40 ~ +85	°C

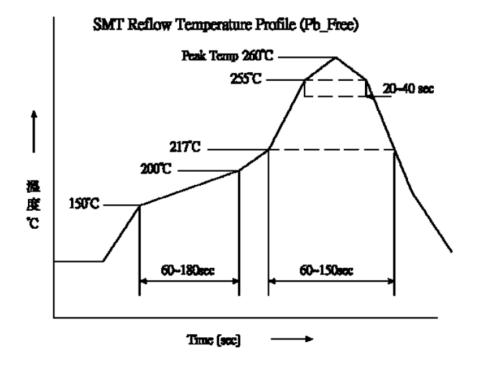
Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%) Standard Test Fixture (Distance: 10cm, 3Vpk, 2000Hz square wave)





Typical Frequency Response

Recommended Reflow Profile



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

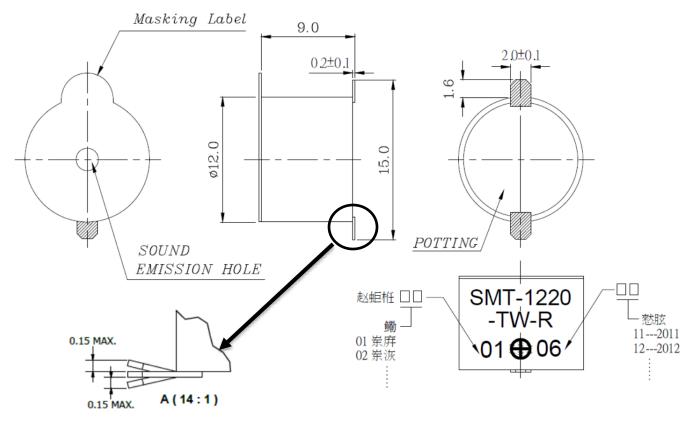
*Washing is allowed.

Reliability Testing

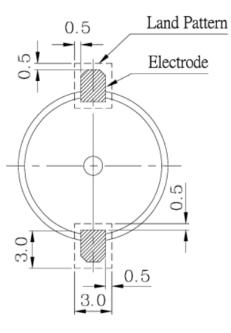
Type of Test	Test Specifications		
High Temperature Test	Store at 85C for 96hrs. Then rest at room temperature for 2hrs.		
Low Temperature Test	Store at -40C for 96hrs. Then rest at room temperature for 2hrs.		
Thermal Shock	Subjected to 10 cycles of the below cycle; +85°C -40°C -30 min. -30 min. -60 min.		
Humidity Cycle Test	Subjected to 10 cycles of the below cycle; +85°C +25°C a,b : 90~98%RH c : 80~98%RH c : 80~98%RH 24hours		
Vibration Test	Part shall be exposed to vibration amplitude of 1.5mm with 10-55Hz band frequency to X,Y,Z direction for 2 hours.		
Drop Test	Drop from height of 75cm onto 40mm thick wooden board, 3 times each in X,Y,Z direction. Total 9 times.		

Part shall be within ± 10dB after testing.

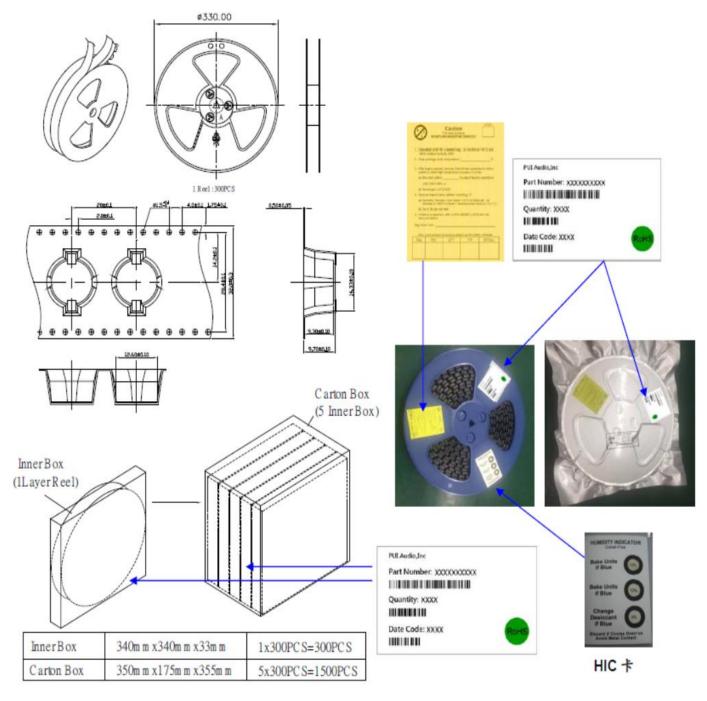
Dimensions



Recommended Land Pattern



Packaging



鋁鉑 MBB 袋 (內附 HIC 卡 / 幹燥劑 / 條碼標簽 / MSD 標貼 符合 MSD-2; 包裝袋外貼 條碼標簽 / MSD 標貼 符合 MSD-2)

Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	05/17/2006	
А	REVISED TO 3D TEMPLATE	11/07/2007	
В	ADDED DETAIL VIEW OF TERMINAL LAYOUT	08/10/2011	
С	Add packaging details for MSL-2	07/23/2023	M.L.

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdrawal without notice.