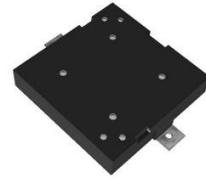




PUIaudio



Data Sheet

SMT-1341-TW-HT-R

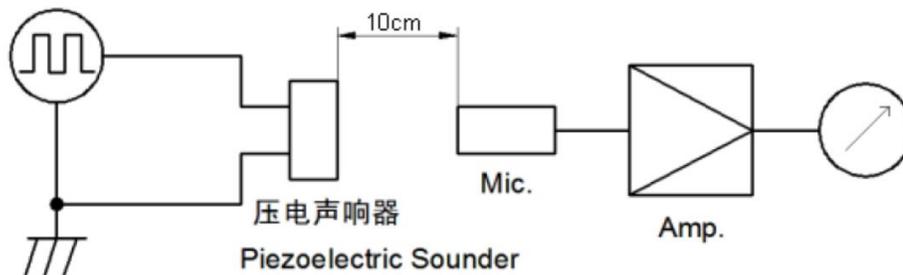
Features:

- Wide -40°C to +105°C operating temperature
- ≥85dB output at 10cm with 5Vp-p input
- Weighs only 0.5g
- Includes a wash-tab
- Reflow Allowed, Washing NOT Allowed

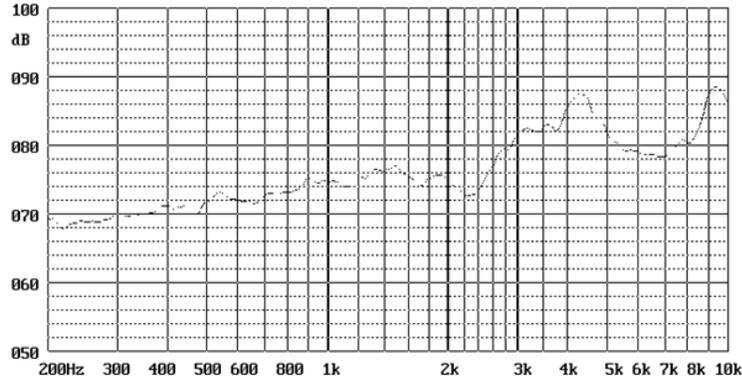
Specifications

Parameters	Values	Units
Rated Voltage	5	Vp-p
Operating Voltage Range	1 - 25	Vp-p
Current Draw at Rated Voltage	≤5	mA
Capacitance (100Hz)	16,000 ± 30%	pF
Minimum SPL @ 10cm	≥85	dB
Resonant Frequency	4100 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn plated Cu	-
Weight	0.5	Grams
Ingress Protection Rating	None	-
Acceptable Soldering Methods	Hand solder, Reflow solder	See following details
Environmental Compliances	ROHS/REACH	Exemption 7c-1
Moisture Sensitivity Level (MSL)	5a	-
Storage Temperature	-40 to 120	°C
Operating Temperature	-40 to 105	°C

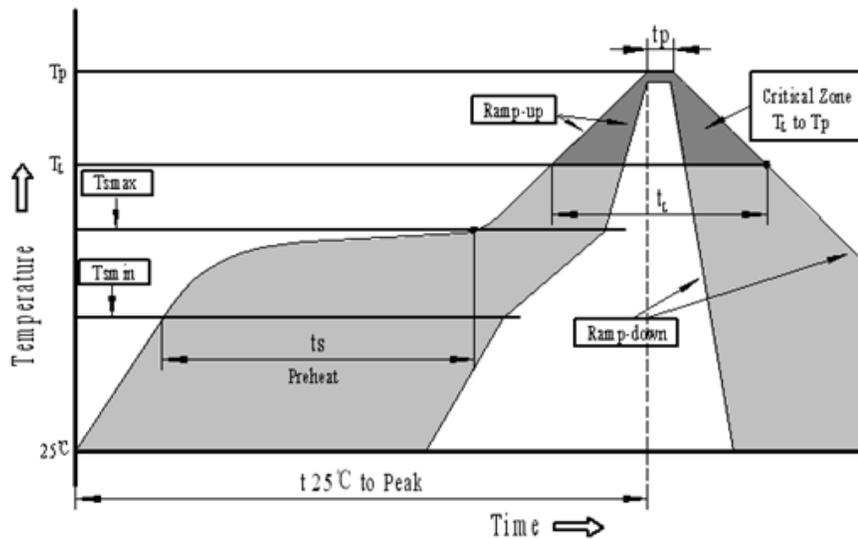
Measurement Method (5Vpp, 10cm)



Typical Frequency Response (5Vpp square wave sweep, 10cm)



Recommended Soldering Procedure



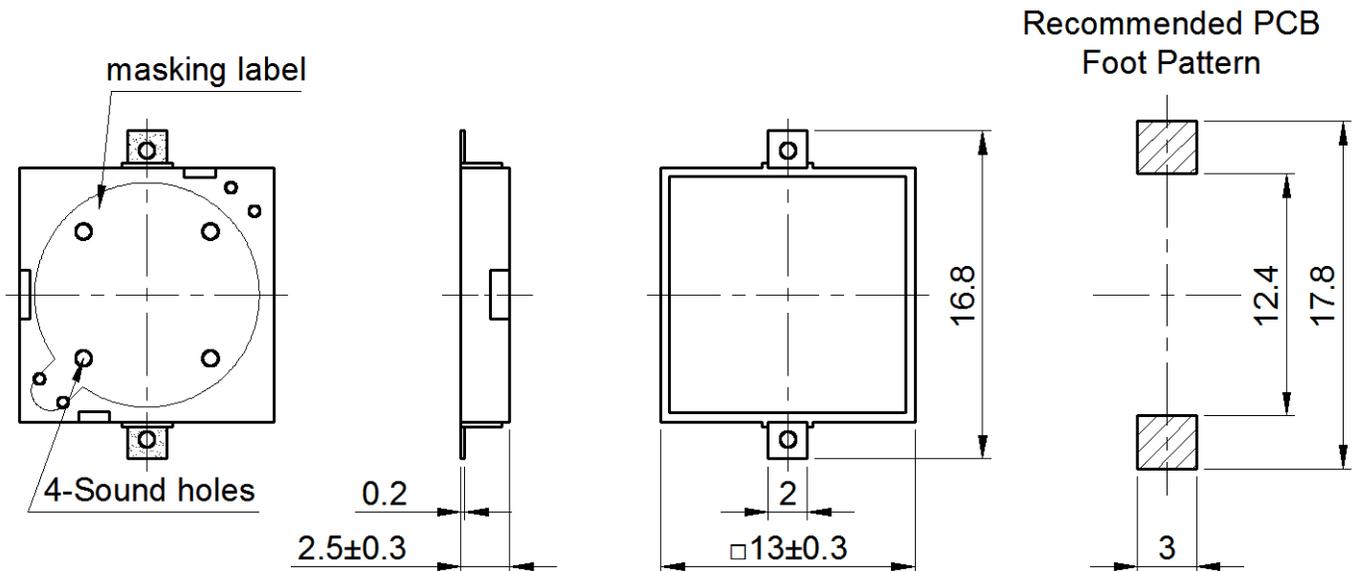
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature <u>Min.</u> (T_{smin})	150°C
-Temperature <u>Min.</u> (T_{smax})	200°C
-Temperature Min.(t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(t_L)	60~150 seconds
Peak <u>temperature</u> (T_p)	260°C+0/-5
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.
We suggest the customer do the reflow soldering once.	

Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Test part at +120°C for 120 hours
Low Temperature Test	Test part at -40°C for 120 hours
Humidity Test	40±2°C, 90~95% RH, 120 hours
Temperature Cycle Testing	Total 5 cycles, 1 cycle consisting of -40±2°C, 30 minutes 20±5°C 15 minutes 120±2°C, 30 minutes 20±5°C 15 minutes
Vibration Test	Sweep from 10 to 55 Hz and then 55 to 10 under single amplitude of 1.0mm in 1 minute. The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours
Shock Test	Sounder shall be measured after being applied shock (980m/s ²) for each three mutually perpendicular directions to each of 3 times by half sine wave.
Drop Test	Dropped naturally from 70cm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.

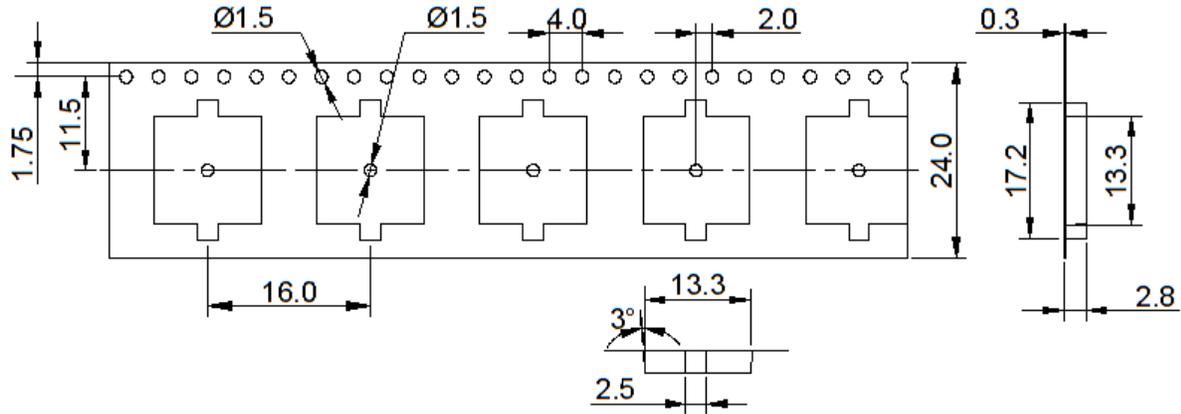
After being placed for 2 to 4 hours at room temperature, the product shall meet specifications, except the SPL should be in ±10dB compared with initial one.

Dimensions



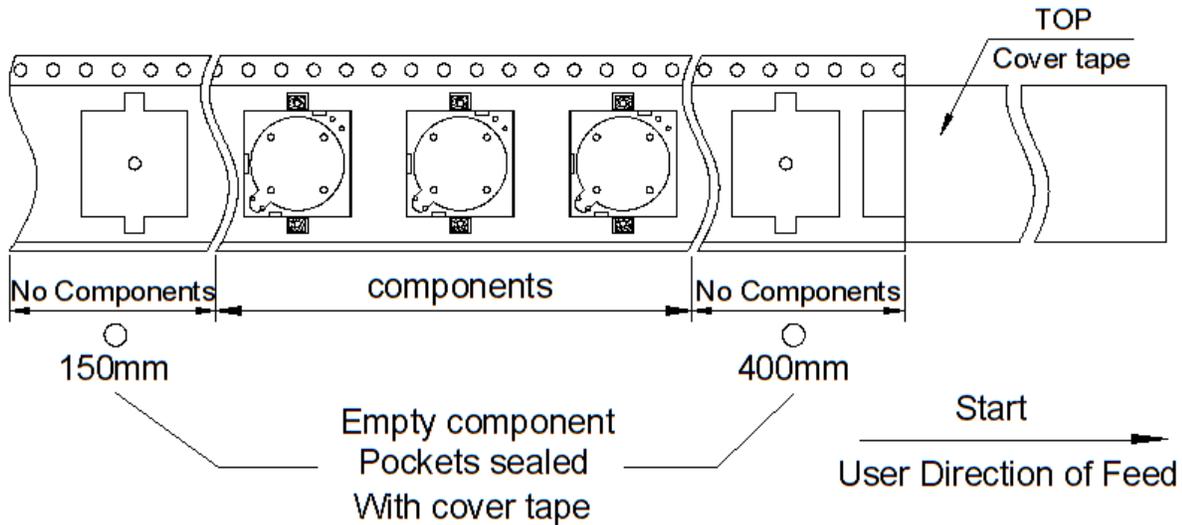
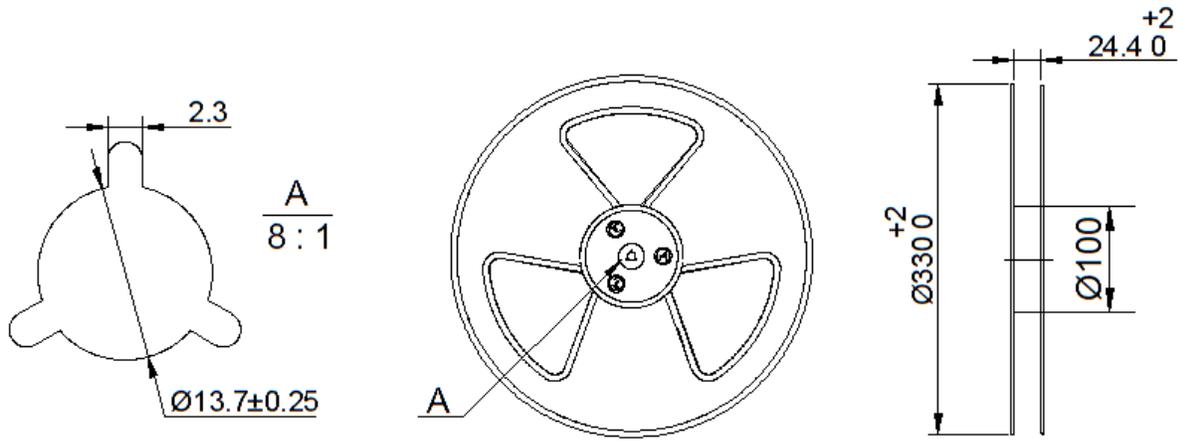
***Part is not washable**

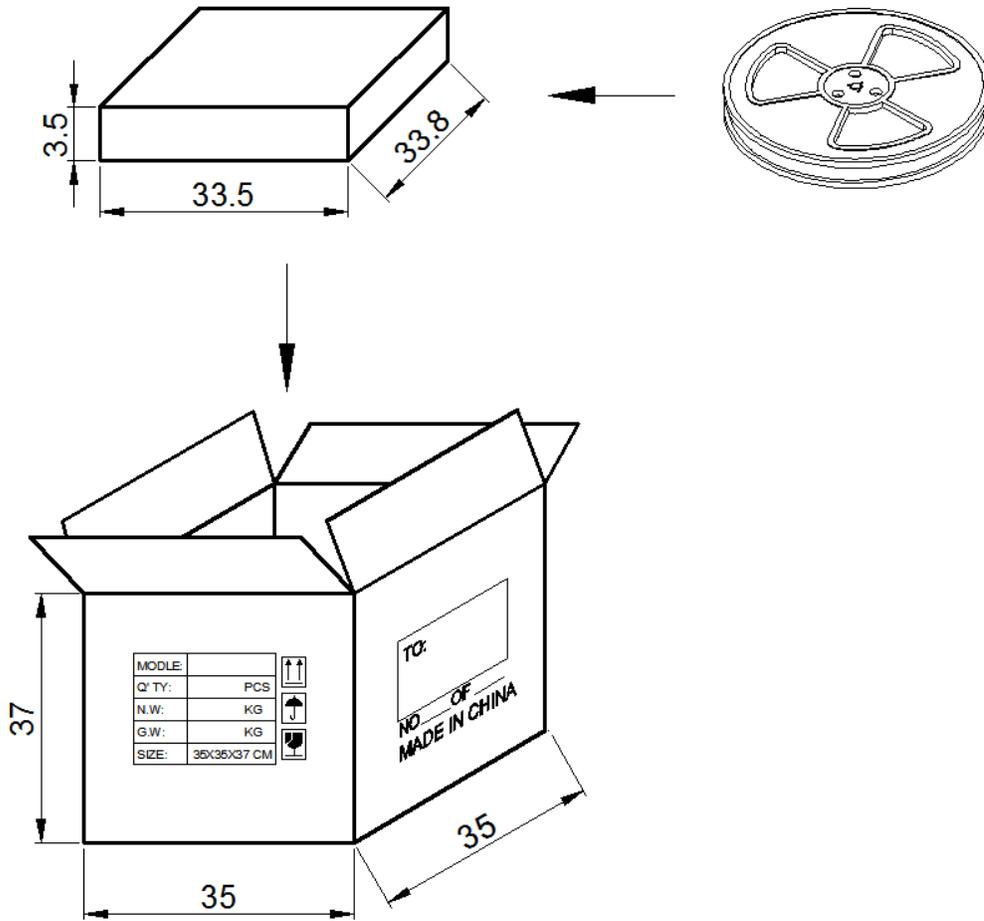
Packaging



NOTE:

1. 10 sprocket hole pitch cumulative tolerance $\pm 0.20\text{mm}$.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: $0.3 \pm 0.05\text{mm}$.
4. Component loaded per 13" reel: 1000pcs.





1000pcs/BOX
 10 Boxes/Carton

Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	10/31/2022	-
B	Update SPL/Frequency Curve Graphic	09/11/2024	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.
3. Base Part: SMT-1341-T-HT-R.