



PUIaudio



Data Sheet

SMT-1341-T-2-R

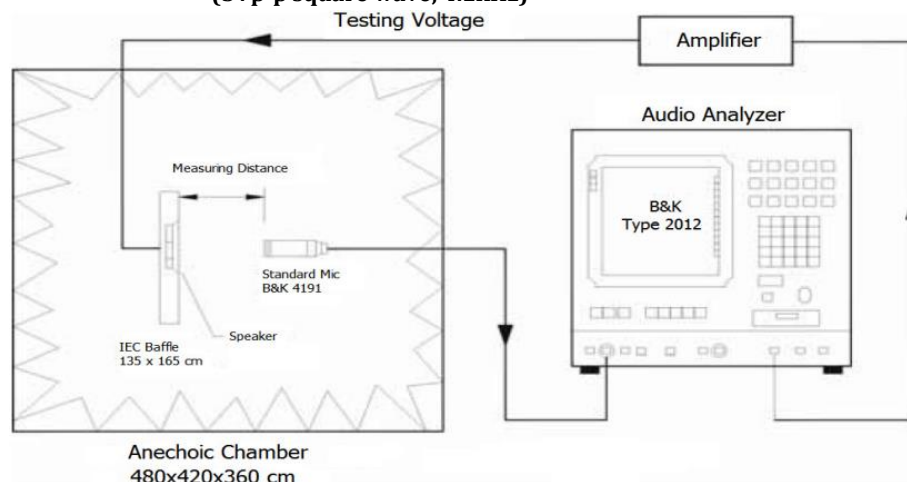
Features:

- Top-firing piezo-electric transducer designed for 1 to 25 Vp-p.
- Small footprint and ultra-thin 2.5mm height for use in modern devices
- Designed for reflow soldering with a lead-free reflow profile

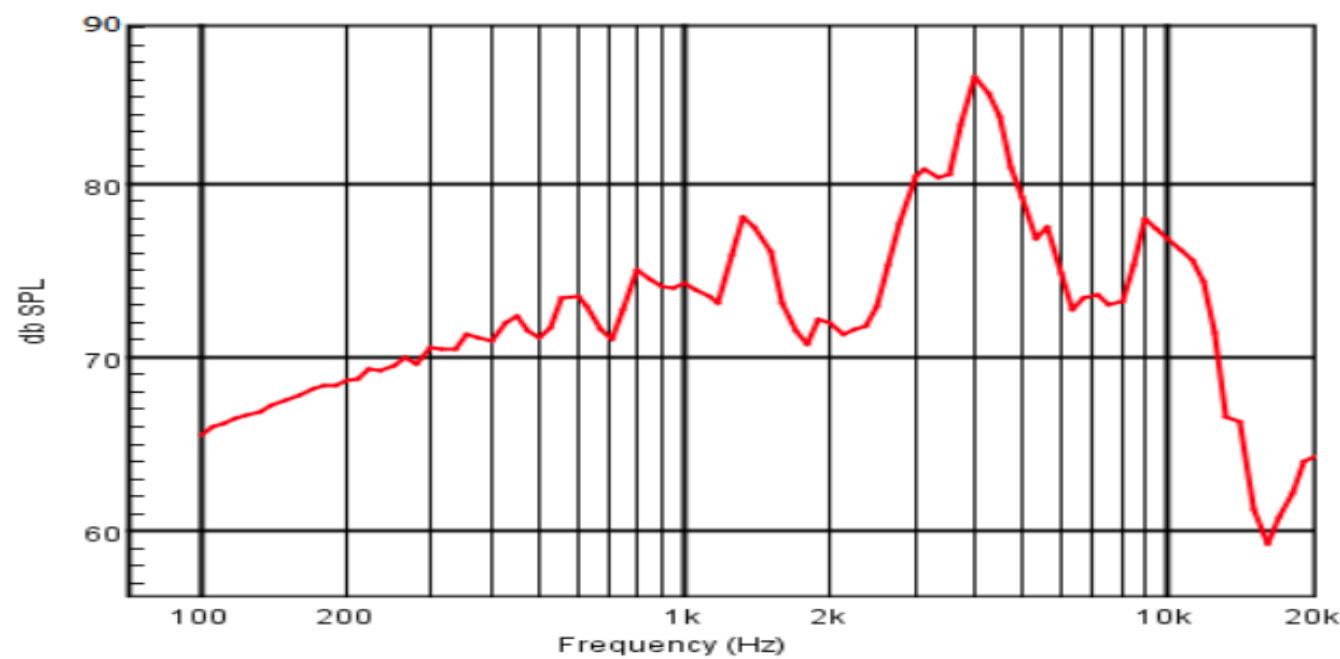
Specifications

Parameters	Values	Units
Rated Voltage	5	Vp-p
Operating Voltage Range	1 ~ 25	Vp-p
Current Draw at Rated Voltage	5(Max.)	mA
Capacitance (100Hz)	16,000 ± 30%	pF
Minimum SPL @ 10cm	75	dBA
Resonant Frequency	4100 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Weight	1	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Moisture Sensitivity Level	2A	-
Storage Temperature	-40 to 105	°C
Operating Temperature	-40 to 105	°C

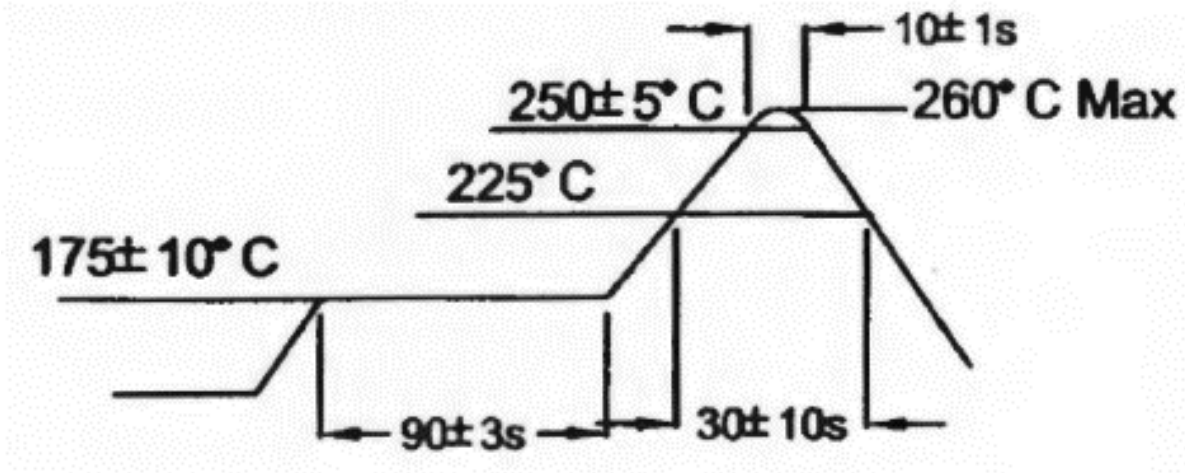
Measurement Method (5Vp-p square wave, 4.1kHz)



Typical Frequency Response (5Vp-p square wave, 10cm)



Recommended Reflow Procedure

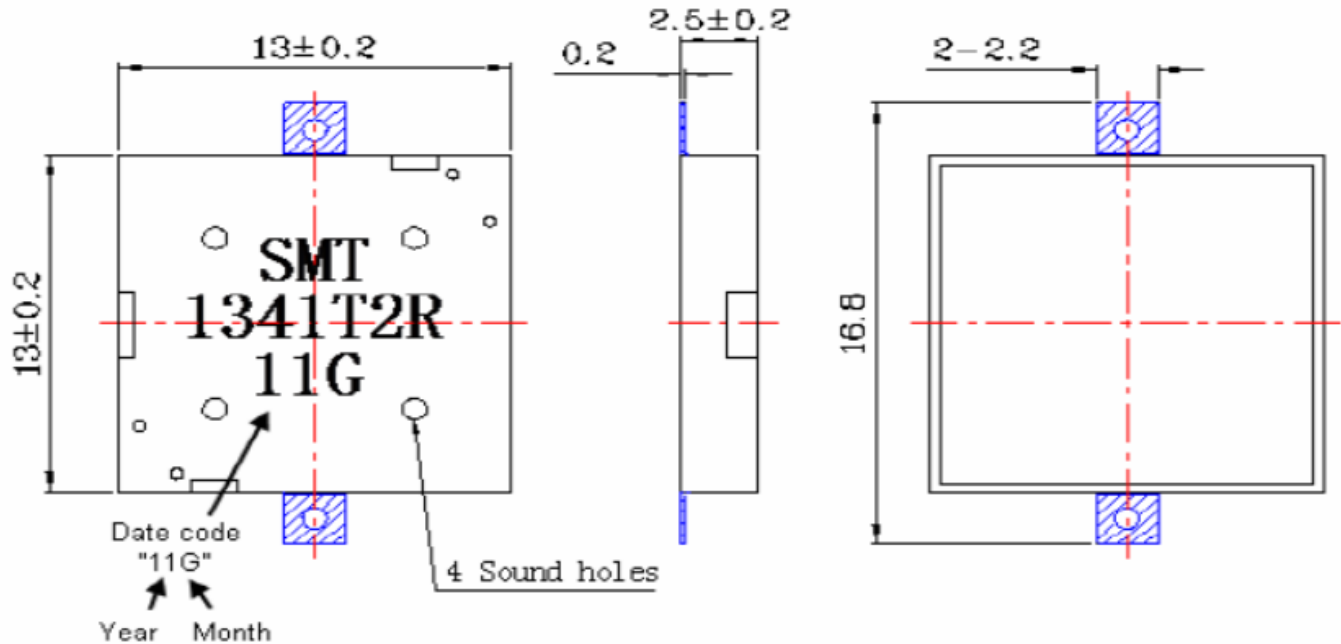


Reliability Testing

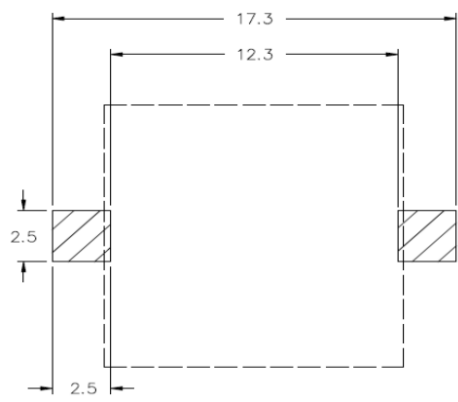
Type of Test	Test Specifications
High Temperature Test	240 hours at 120°C, with random humidity.
Low Temperature Test	240 hours at -40°C, with random humidity.
Humidity Test	240 hours at 40±2°C with relative humidity at 90-95%.
Temperature Cycle Testing	90 minutes, -40°C to 105°C, 5 cycles.
Vibration Test	1.52 mm movement modulated at 10-55 Hz in 3 directions for 6 hours total.
Shock Test	100 m/s ² force on three axis, 3 cycles

After testing, part shall rest for 2 hours and then be tested for a clean, pure tone.

Dimensions (Tolerances ±0.5mm unless otherwise specified)



Suggested Land Pattern* (for surface mount parts)



*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 – Tape/Reel 1k pcs

Specifications Revisions			
Revision	Description	Date	Approved
-	Released from Engineering	06/16/2011	-
A	Updated Spec Format, Add details for Reliability, Reflow, etc. Add MSL 2A	03/26/2025	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.