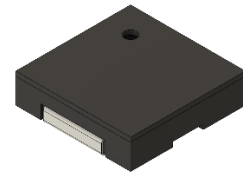




PUIaudio



Data Sheet

SMT-0760-T-R

Features:

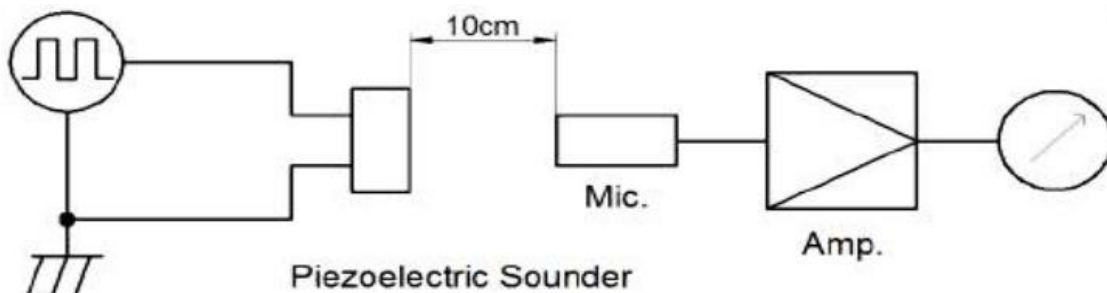
- 7.5mm x 2mm SMD Piezo Transducer
- 3Vpp, 6000Hz
- Reflow Allowed, Washing NOT Allowed

Specifications

Parameters	Values	Units
Rated Voltage	3	Vp-p
Max. Input Voltage	25	Vp-p
Max. Current Draw at Rated Voltage*	3	mA
Capacitance	6,000 ± 30%	pF
Minimum SPL @ 10cm*	65	dBA
Resonant Frequency	6,000 ± 500	Hz
Housing Material	LCP	-
MSL Level	4	-
Terminal Material	Tin Plated Brass	-
Weight	0.20	Grams
Acceptable Soldering Methods	Reflow Solder	See page 3 for soldering information
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-40 to +85	°C
Operating Temperature	-40 to +85	°C

*Value applying rated voltage and resonance frequency

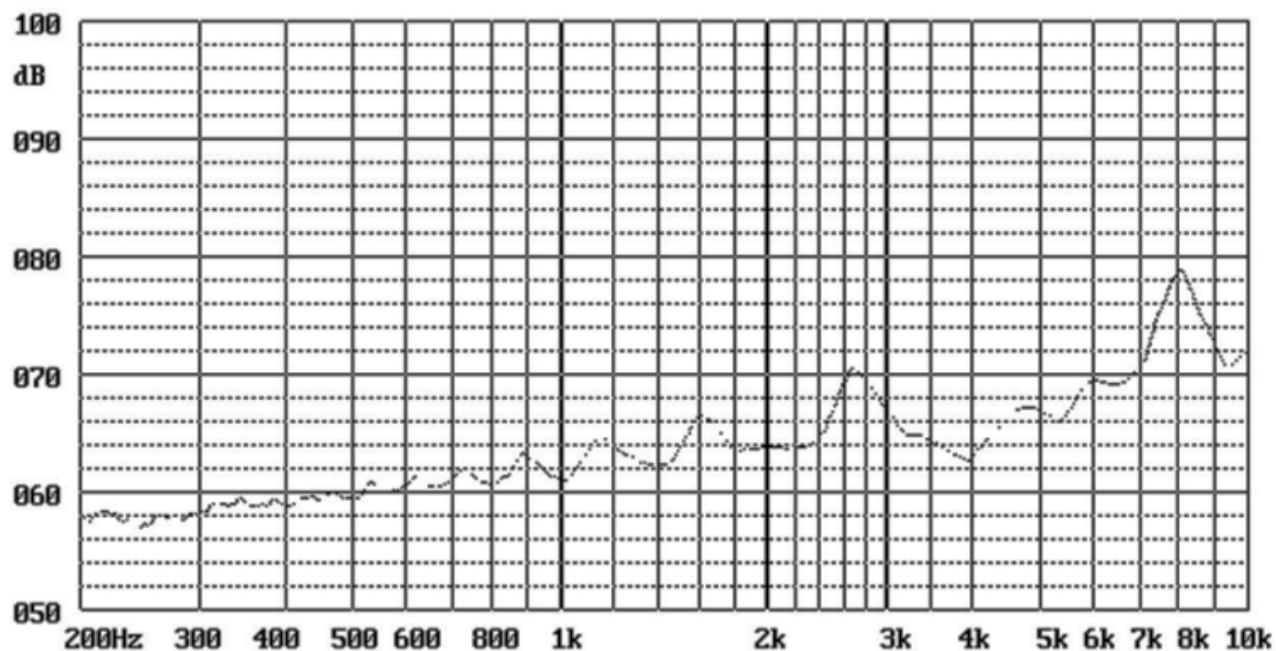
Measurement Method (d=10cm)



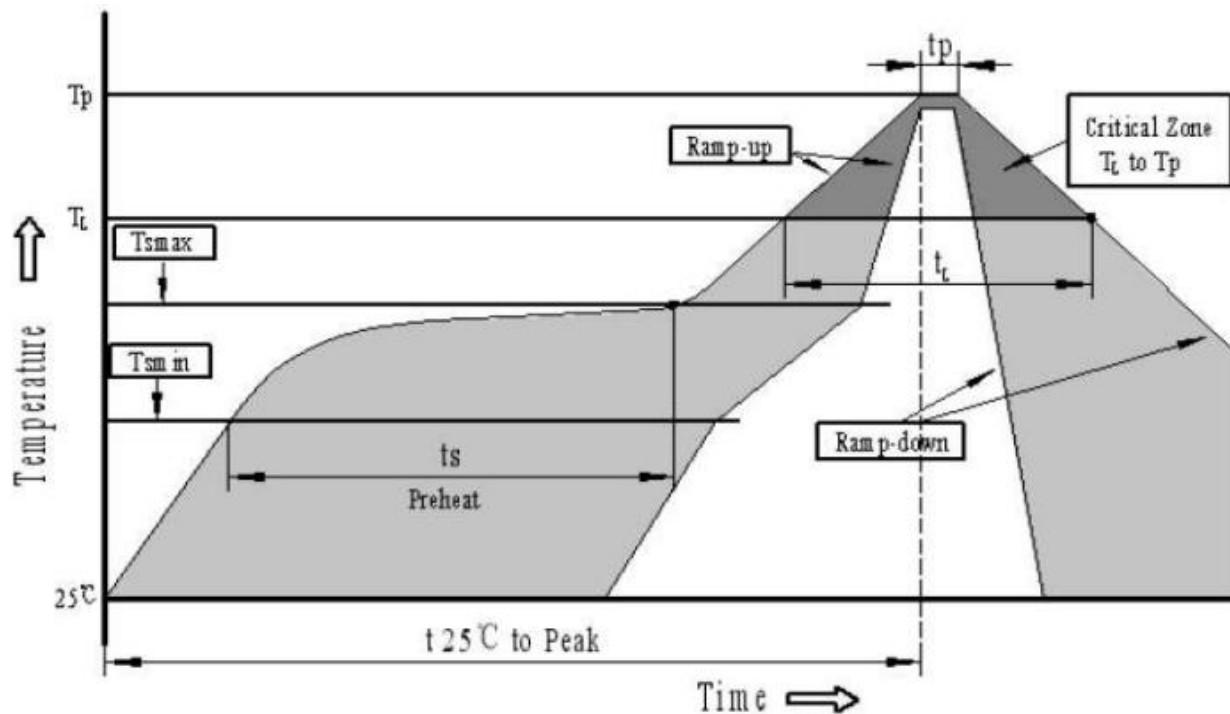
MIC: ND10 Sound Meter or equivalent

Signal Generator: DF1641D or equivalent

Typical Frequency Response (V=3Vp-p. d=10cm)



Recommended Soldering Procedure



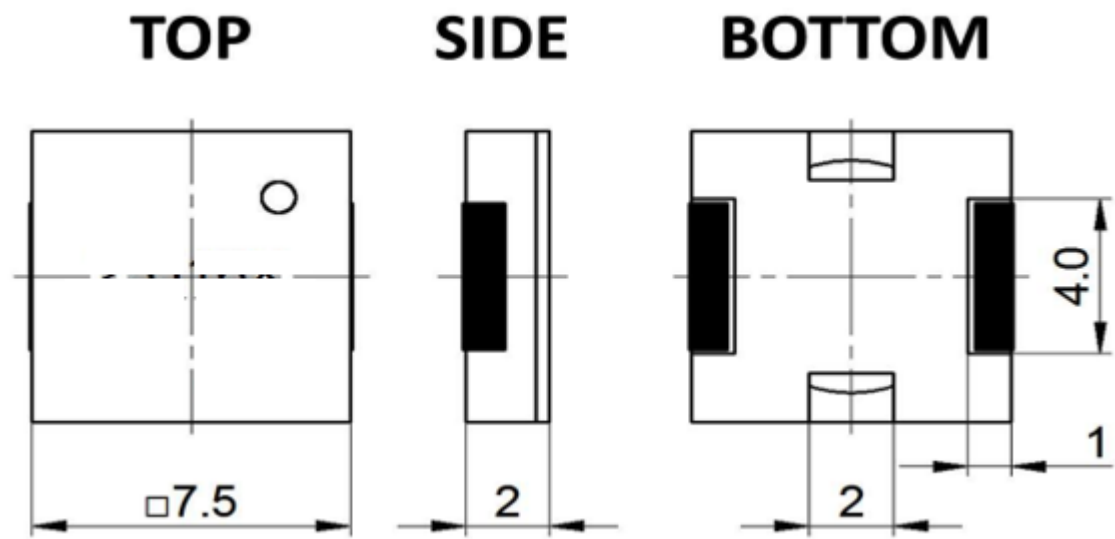
Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_p)	3°C/second max.
Preheat	
- Temperature Min. (T_{Smin})	150°C
- Temperature Min. (T_{Smax})	200°C
- Temperature Min. (t_s)	60-180 seconds
T_{Smax} to T_L	
- Ramp up rate	3°C/second max.
Time maintained above:	
- Temperature (T_L)	217°C
- Time (t_L)	60-150 seconds
Peak Temperature (T_p)	245°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

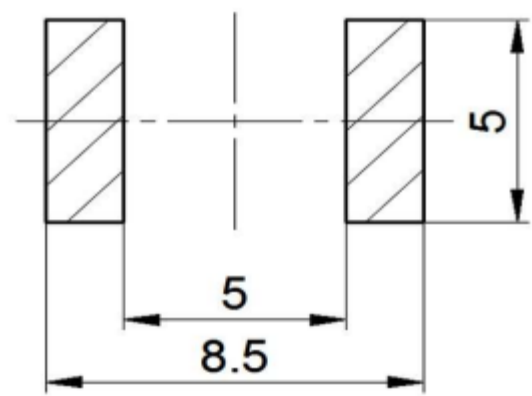
Type of Test	Test Specifications
High Temperature Storage Test	120 hours at 85°C, then rest for 2-4 hours
Low Temperature Storage Test	120 hours at -40°C then rest for 2-4 hours
Humidity Test	120 hours at 40±2°C with relative humidity at 90-95%, then rest for 2-4 hours
Temperature Cycle Testing	-40±2°C for 30 minutes, then 20±5°C for 15 minutes, then 85±2°C for 30 minutes, then 20±5°C for 15 minutes. Total of 5 cycles.
Vibration Test	Sweep from 10 to 55 Hz and then 55 to 10Hz, at an amplitude of 1.52mm in 1 minute. 2 hours per plane in each perpendicular plane for a total of 6 hours.
Shock Test	Applied shock of 9802m/s ² for each perpendicular direction, 3 times by half sine wave
Drop Test	Drop from 70cm height onto a 10mm thick wooden board 3 times in x, y, and z directions. Total of 9 times

After each test, part shall meet specifications with an SPL variance of ±10dB

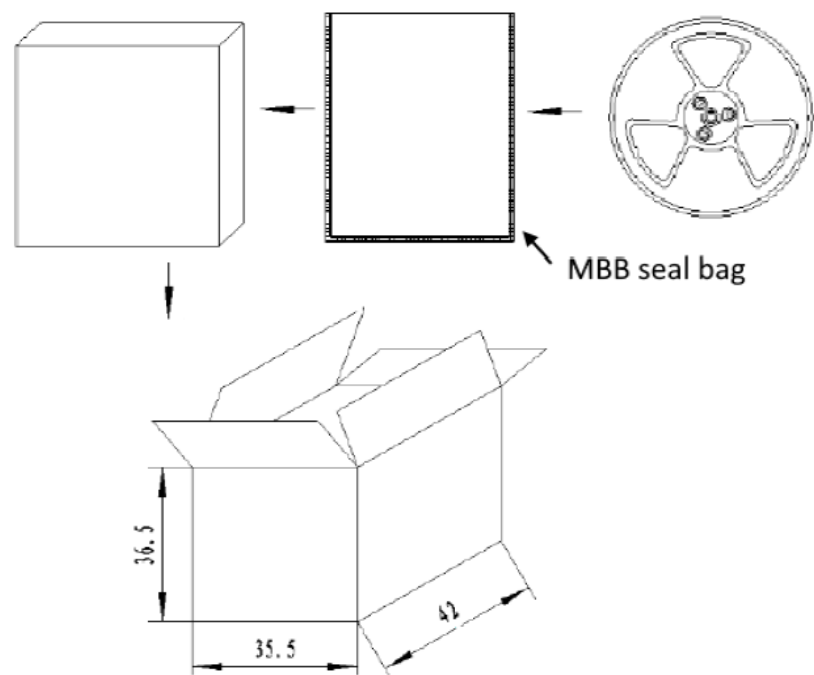
Dimensions



Suggested Land Pattern*



*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.



CAUTION

This bag contains

MOISTURE-SENSITIVE DEVICES

LEVEL

4

- Calculated shelf life in sealed bag:
 - 12 months for Electro-Magnetic Buzzer..
 - 12 months for Speaker
 - 6 months for Piezo Buzzer.
- After bag is opened devices that will be subjected to reflow solder or other high temperature process must:
 - Mounted within 72hrs hours of factory conditions<30°C/60%RH
 - stored at <10%RH
- Devices require bake,before mounting,if:
 - Humidity Indicator Card is >10% when read at 23±5°C.
 - 2a or 2b not met.
- If baking is required,devices may be baked for 48 hours at 35±5°C

Note: If devices containers cannot be subjected to high temperature or shorter bake times are desied.

Reference IPC/JEDEC J-STD-033 for bake procedure

Bag Seal Date Refer to Tape&Reel on green label

Note:Level and body temperature defined by IPC/JEDEC J-STD-020

- *1000 pcs per inner box
- *10 inner box per carton
- *Total 10000 pcs per cartoon

Specifications Revisions			
Revision	Description	Date	Approved
A	Released from Engineering	2/18/2026	JL

- Note:
- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are ±0.5mm and angles are ±3°.
 - Specifications subject to change or withdrawal without notice.