



# PUIaudio



Data Sheet

SMT-1127-S-R

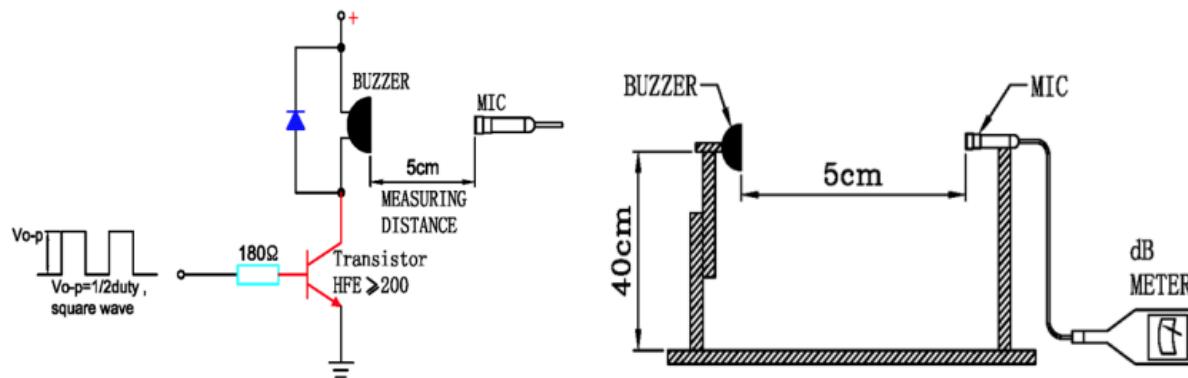
## Features:

- 9mm, 2731Hz Magnetic SMD Transducer
- Low Profile Height at 2.5mm
- Reflow Allowed, Washing NOT Allowed

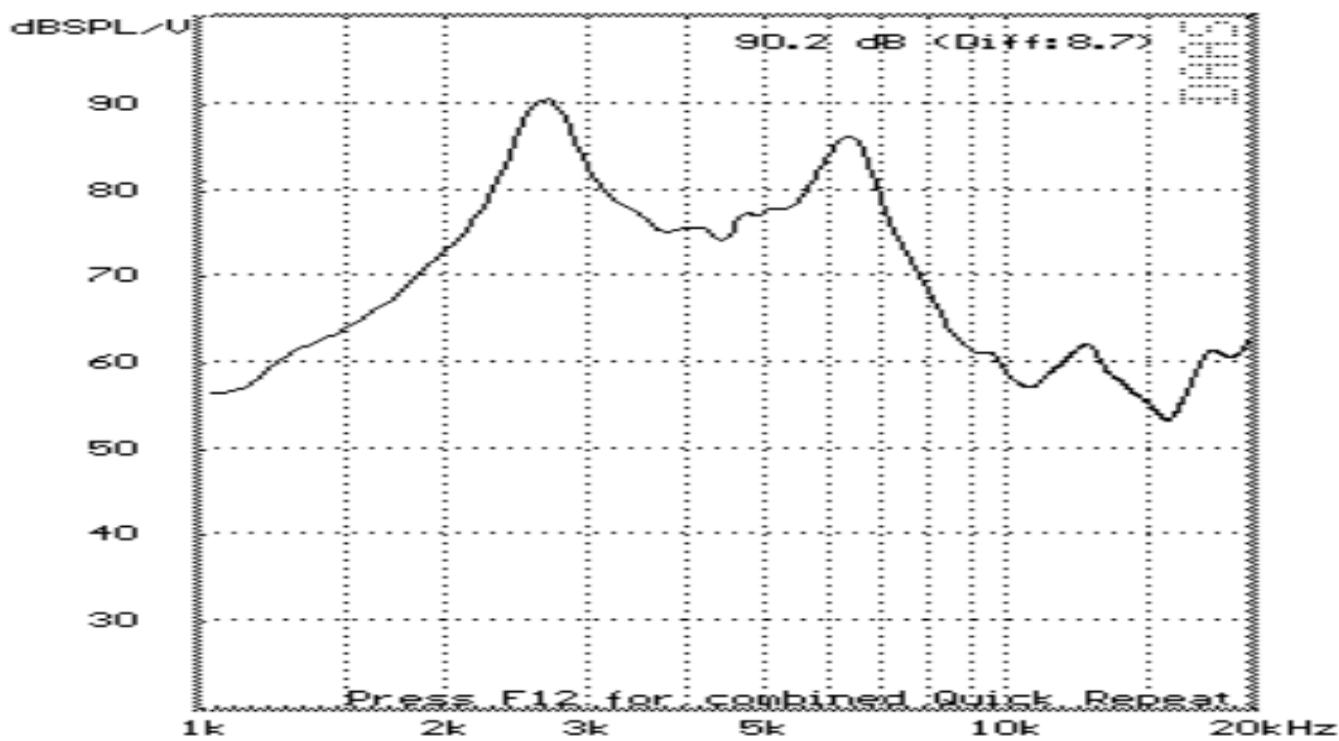
## Specifications

Parameters	Values	Units
Rated Voltage	3.6	V <sub>0-pk</sub>
Operating Voltage Range	2.5 - 4.5	V <sub>0-pk</sub>
Current Draw at Rated Voltage	100 (Max)	mA
Coil Resistance	16 ± 3	Ohms
Minimum SPL @ 10cm	80	dBA
Resonant Frequency	2731 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Tin Plated Brass	-
Weight	0.8	Grams
Moisture Sensitivity Level (MSL)	2A	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages for soldering information
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 to +85	°C
Operating Temperature	-30 to +70	°C

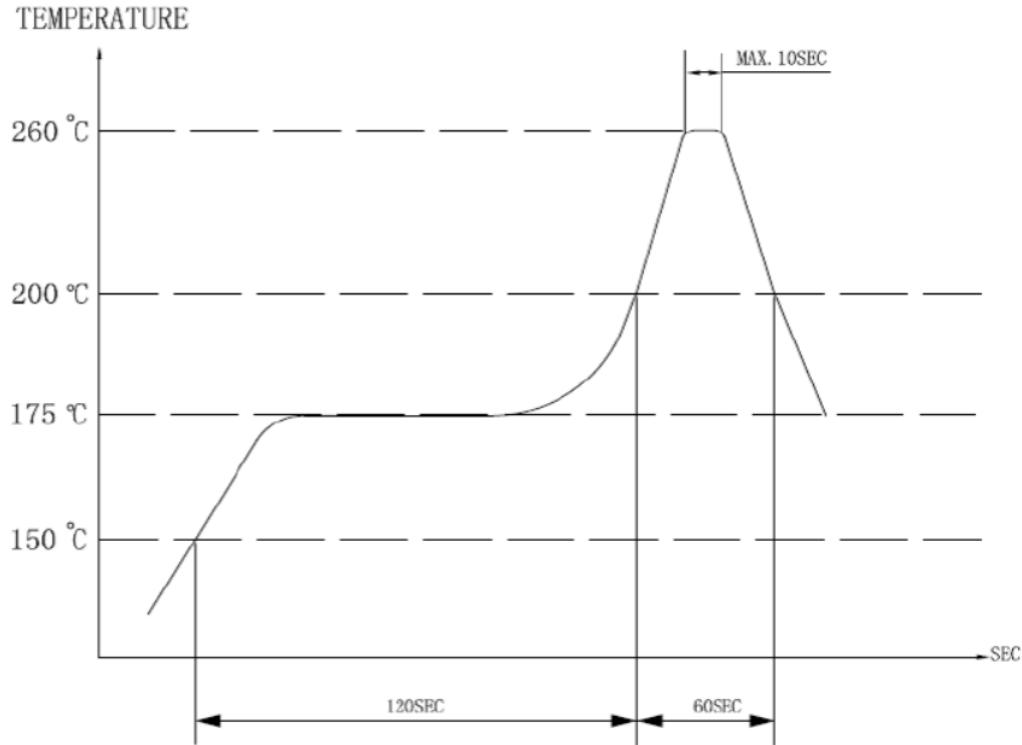
## Measurement Method (Square Wave 3.6Vpk, 2731Hz @ 10cm)



## Typical Frequency Response (3.6Vpk square wave, d= 10cm)

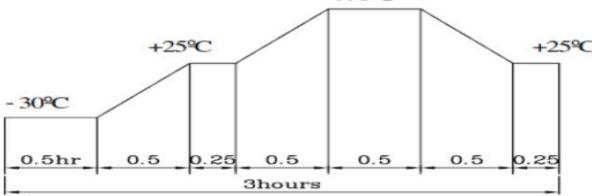


## Recommended Soldering Procedure



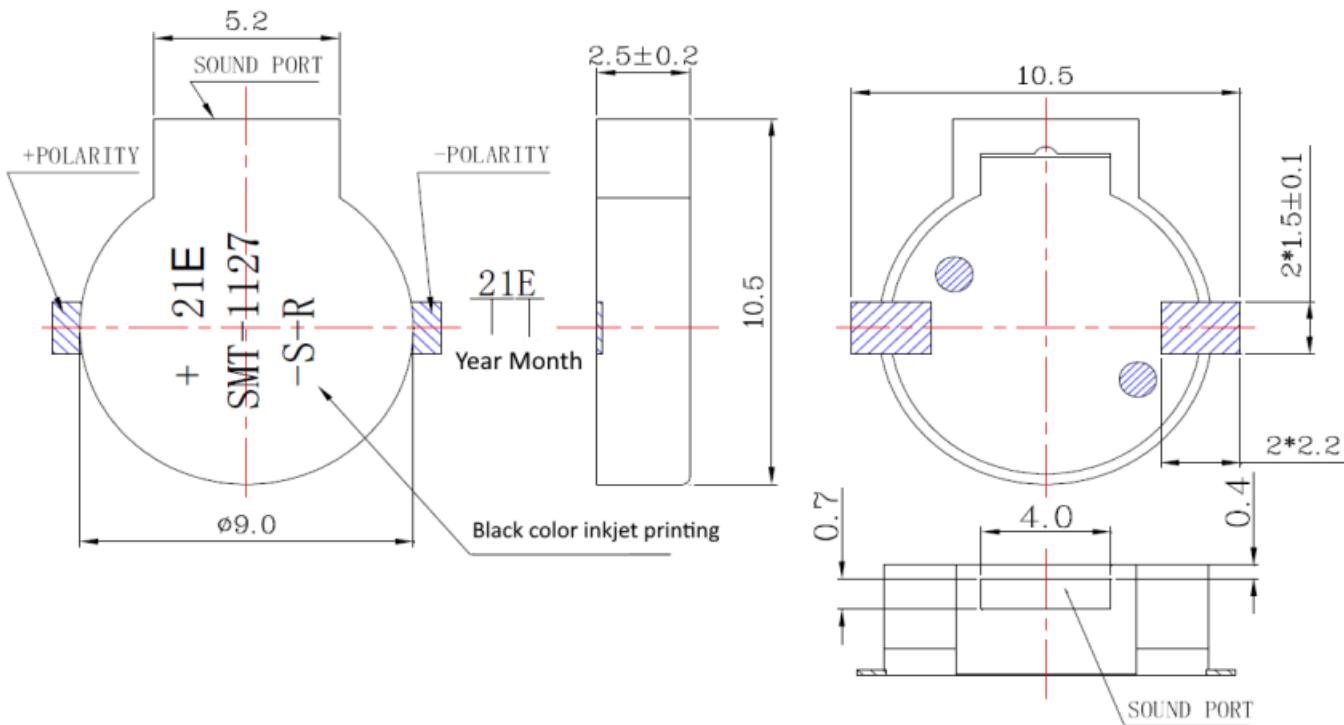
\*Manual Soldering Temperature 350C within 5 seconds.

## Reliability Testing

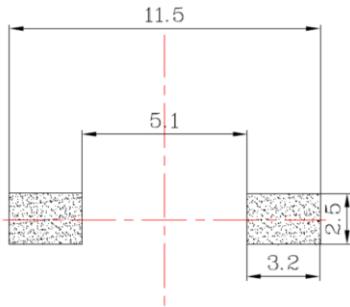
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C. Rest for 2 hours normal condition before retesting.
Low Temperature Test	96 hours at -40°C. Rest for 2 hours normal condition before retesting.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%. Rest for 2 hours normal condition before retesting.
Temperature Cycle Testing	Subject part to 5 cycles of the following cycle; 
Vibration Test	Apply vibration amplitude of 1.5mm with 10-55Hz band to each XYZ direction for 2 hours.
Drop Test	Drop onto 4cm thick wooden board from 75cm height, 6 times, any direction.

After tests, part shall be within  $\pm 10$ dB of stated SPL.

## Dimensions (Tolerances $\pm 0.5$ unless otherwise specified)

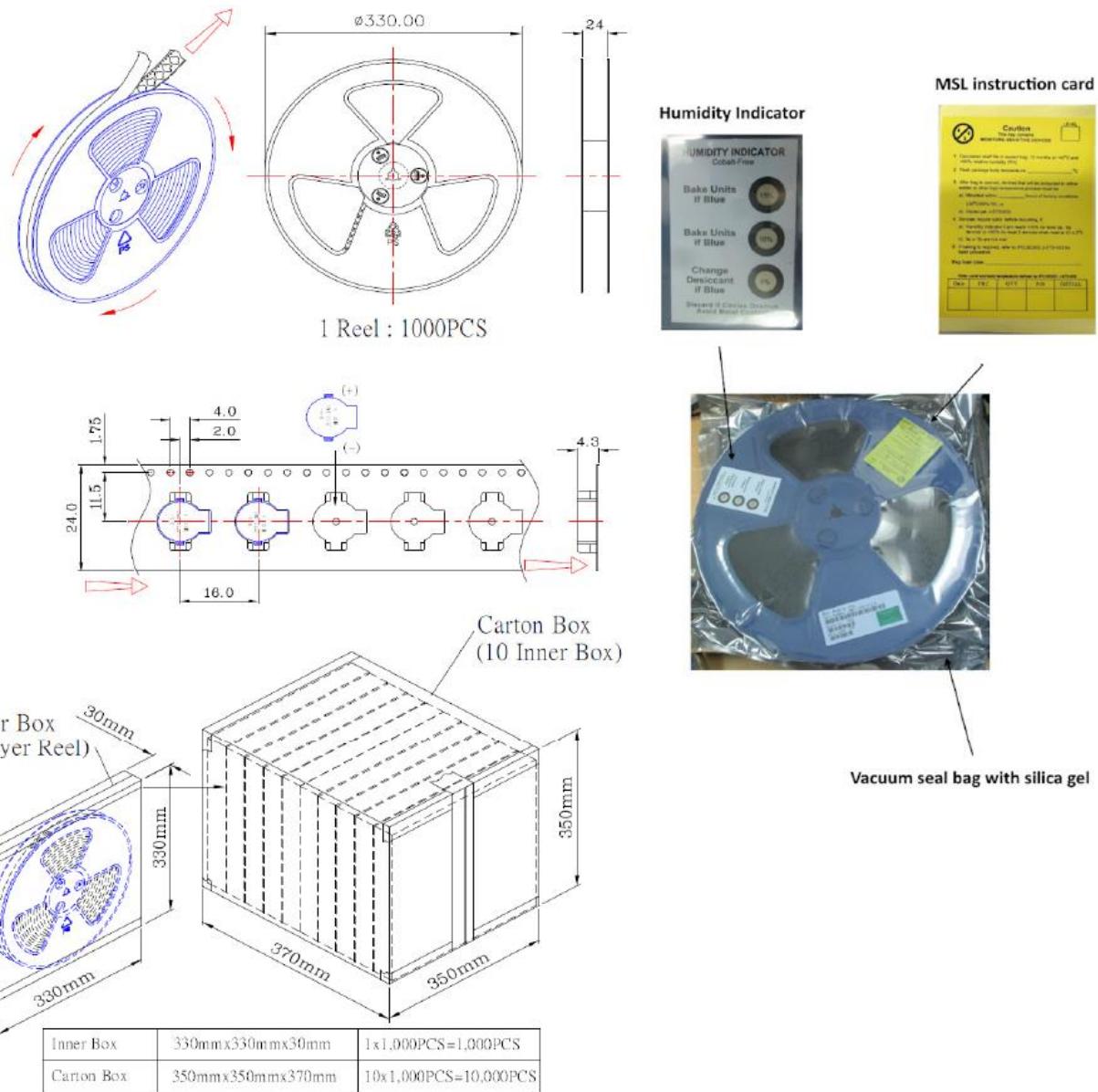


## **Suggested Land Pattern\***



\*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.

## Packaging



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	Released from Engineering	08/05/2014	-
A	Updated Spec Format, Add Details for Reliability, Packaging, MSL, etc.	12/04/2024	ML

Note:

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