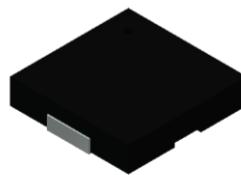




# PUIaudio



## Data Sheet

SMT-0940-T-3V-R

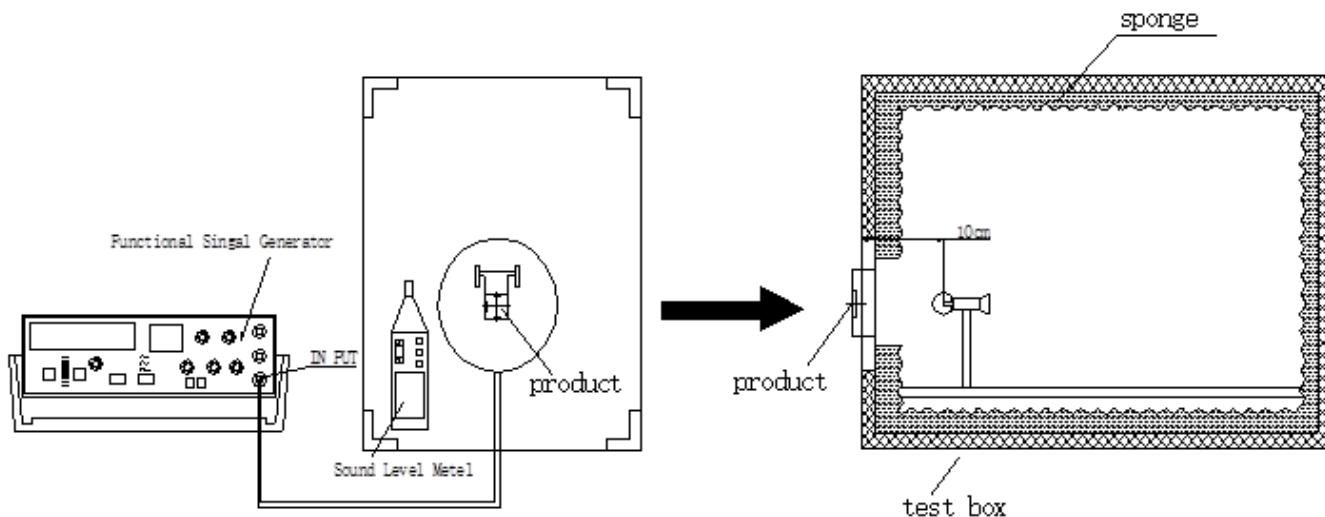
### Features:

- 9x9mm, 4kHz SMD Piezo Transducer
- Reflow Allowed, Washing NOT Allowed

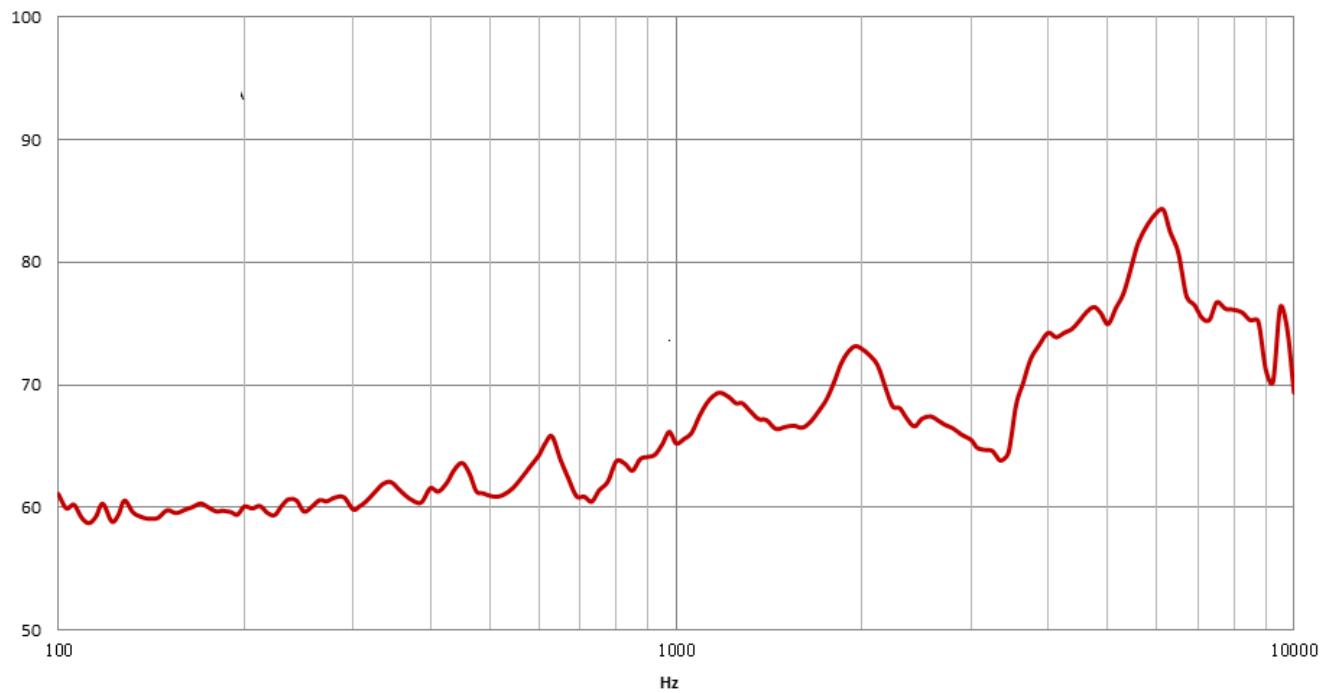
### Specifications

Parameters	Values	Units
Rated Voltage	3	Vp-p
Operating Voltage Range	1 ~ 25	Vp-p
Current Draw at Rated Voltage	1 (Max.)	mA
Capacitance	12,000 ± 30%	pF
Minimum SPL @ 10cm	70	dBA
Resonant Frequency	4,000 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Weight	0.2	g
Moisture Sensitivity Level (MSL)	2A	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-40~+85	°C
Operating Temperature	-30 - +85	°C

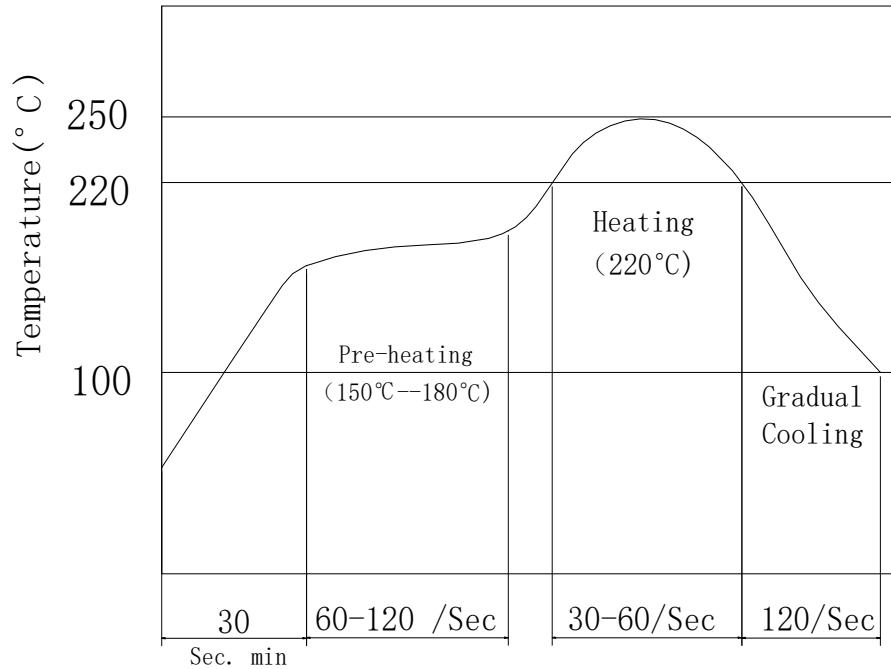
### Measurement Method (Square Wave 3Vpp, 4kHz @ 10cm)



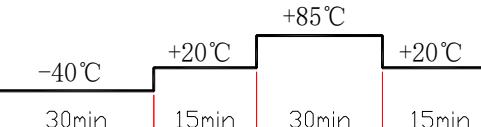
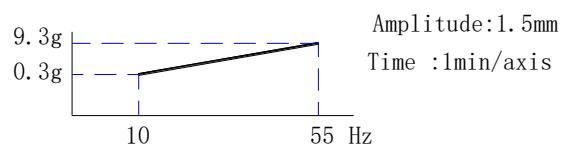
## Typical Frequency Response (3Vpp square wave, d= 10cm)



## Recommended Soldering Procedure

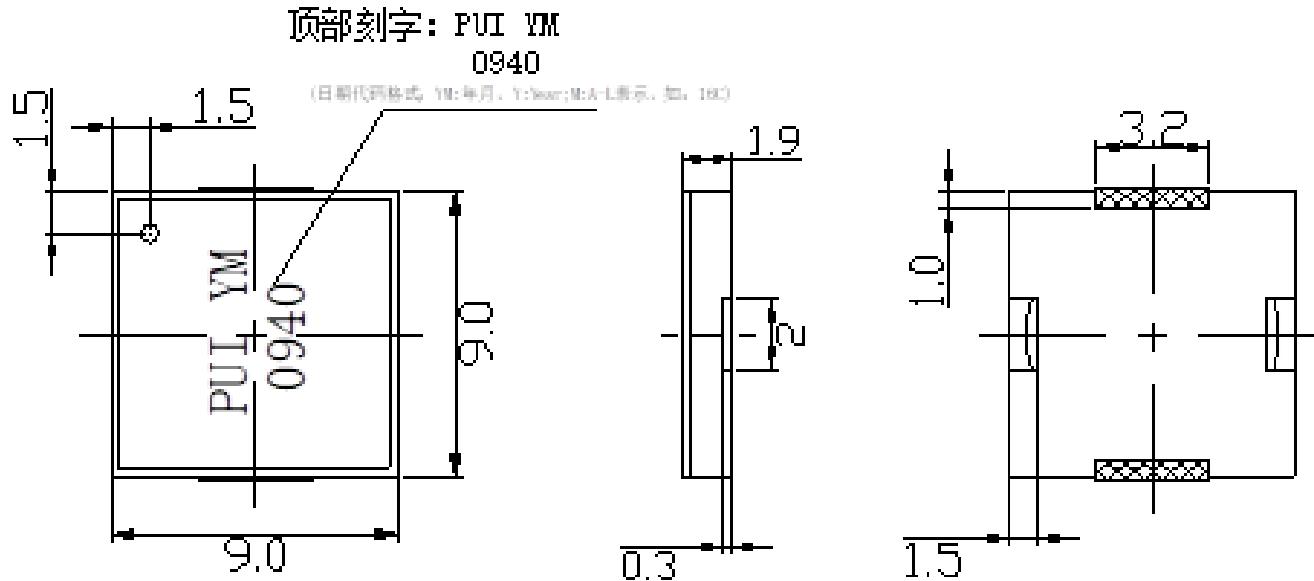


## Reliability Testing

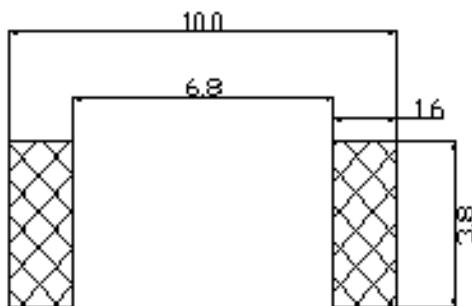
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then expose to room temperature for 2 hours.
Low Temperature Test	96 hours at -40°C, then expose to room temperature for 2 hours.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%, then expose to room temperature for 2 hours.
Temperature Cycle Testing	 <p>Test above 5 cycles, then expose to room temperature for 2 hours.</p>
Vibration Test	 <p>Test above for three axes (x, y, z), then expose to room temperature for 2 hours. (Total = 6 hours)</p>
Drop Test	Height of 70cm, onto a 10mm thick board in three directions (x, y, z).

After these tests, the SPL change should be within  $\pm 5$  dB.

## Dimensions

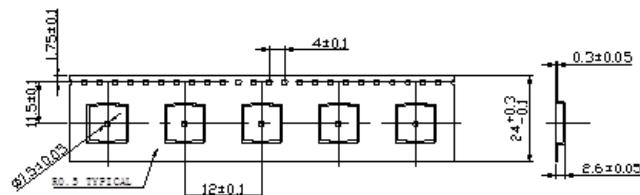


## Suggested Land Pattern\* *(for surface mount parts)*

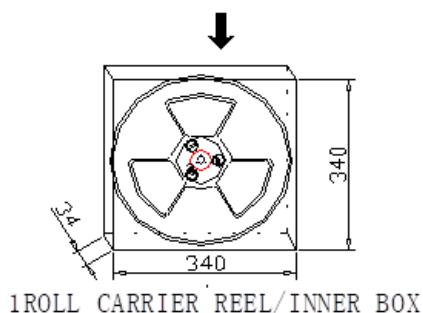


\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

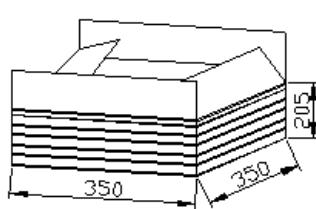
## Packaging



2000PCS/SPPOOL



1ROLL CARRIER REEL/INNER BOX



10000PCS/CTN

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	Released from Engineering	02/22/2016	-
A	Revised operating temperature	07/23/2018	MV
B	Updated Spec Format, Add details for Reliability, Packaging, etc. Add MSL 2A	05/16/2024	03/04/2025

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.