



PUI audio



Data Sheet

SMT-0927-S-12-R

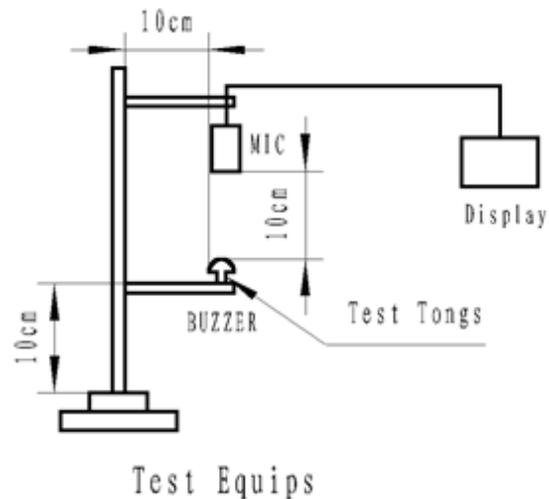
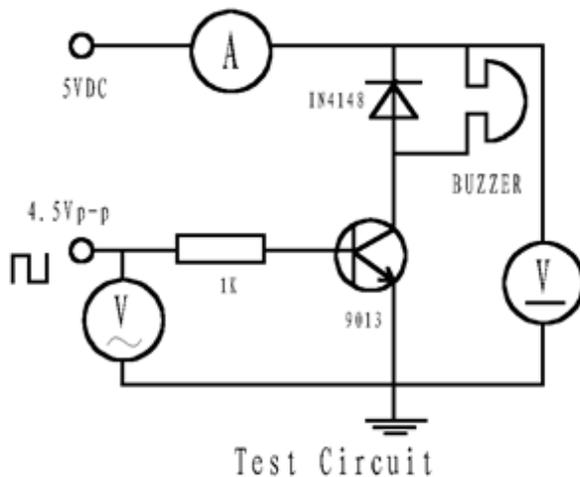
Features:

- 9 x 9mm Magnetic Transducer
- 5Vpk, 2730Hz, 32Ω

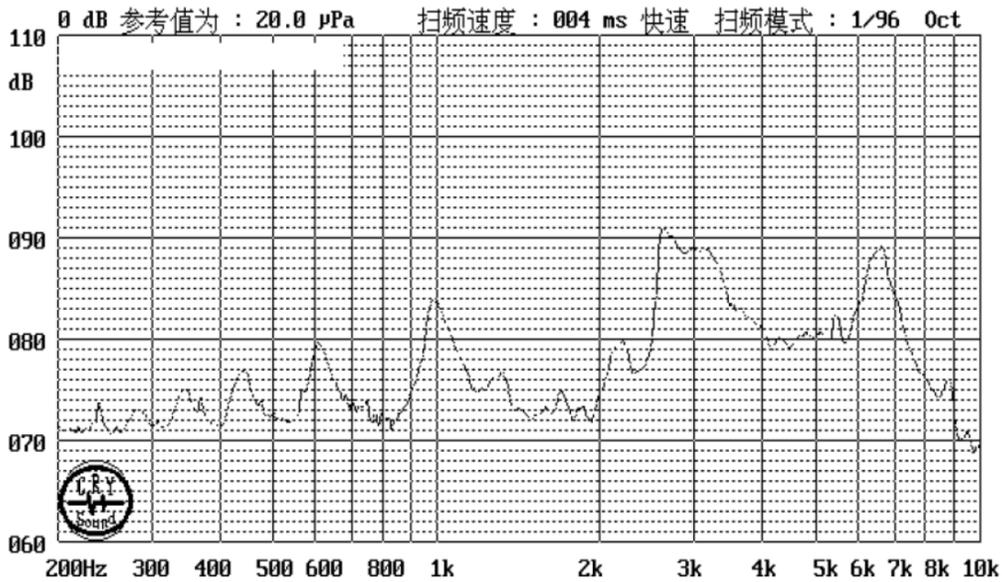
Specifications

Parameters	Values	Units
Rated Voltage	5	V0-p
Operating Voltage Range	3 ~ 7	V0-p
Current Draw at Rated Voltage	80(Max.)	mA
Coil Resistance	32 ± 4.8	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2730 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn plated Brass	-
Weight	0.8	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following soldering information
Environmental Compliances	RoHS/REACH	-
Moisture Sensitivity Level (MSL)	2A	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

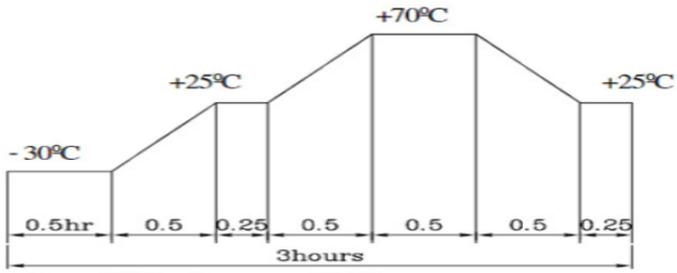
Measurement Method (5Vpk, 2730Hz, 50% duty cycle square wave with a SPL meter at 10cm)



Typical Frequency Response (5Vpk square wave sweep with microphone spaced at 10cm)

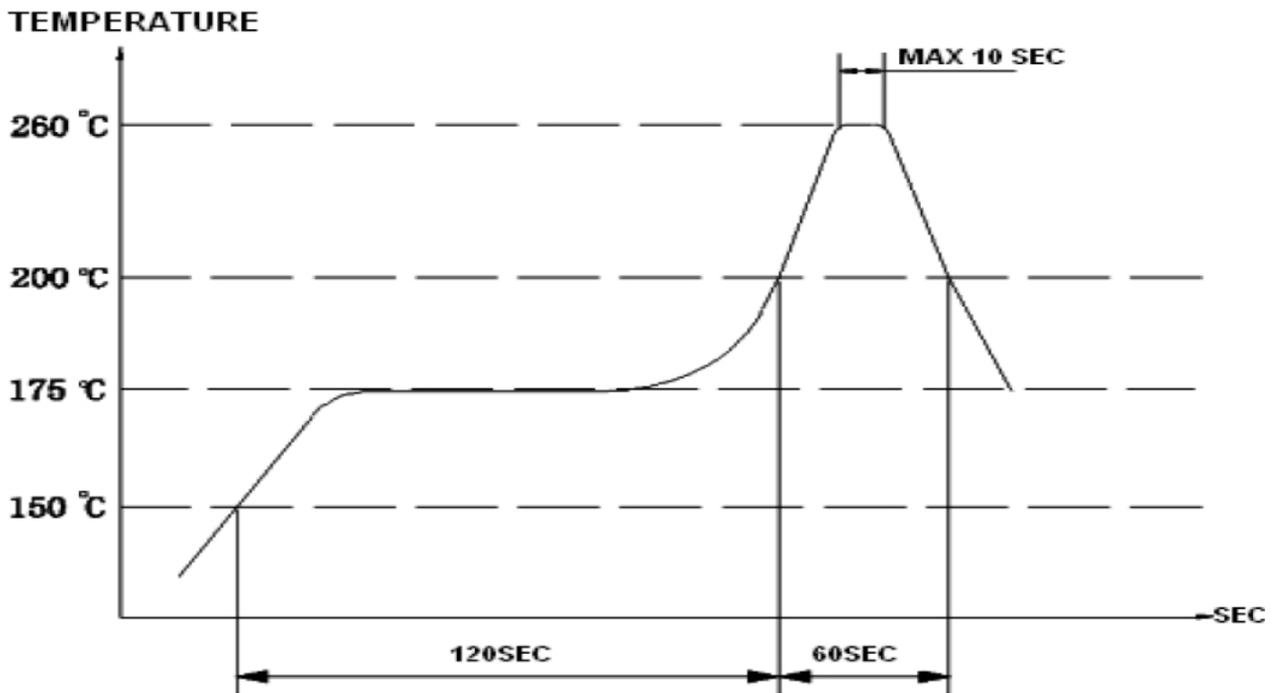


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Temperature of 85C for 96 hours. Rest at room temperature for 2 hours before retest.
Low Temperature Test	Temperature of 85C for 96 hours. Rest at room temperature for 2 hours before retest.
Humidity Test	Set at 90-95% RH, 40C for 96 hours. Rest at room temperature for 2 hours before retest.
Temperature Cycle Testing	Total 5 cycles of the following cycle test; 
Vibration Test	Amplitude of 1.5mm with 10-55Hz band of frequency in each XYZ direction for 2 hours.
Drop Test	Drop from 75cm height onto 4cm thick wooden board, any direction, 6 times.

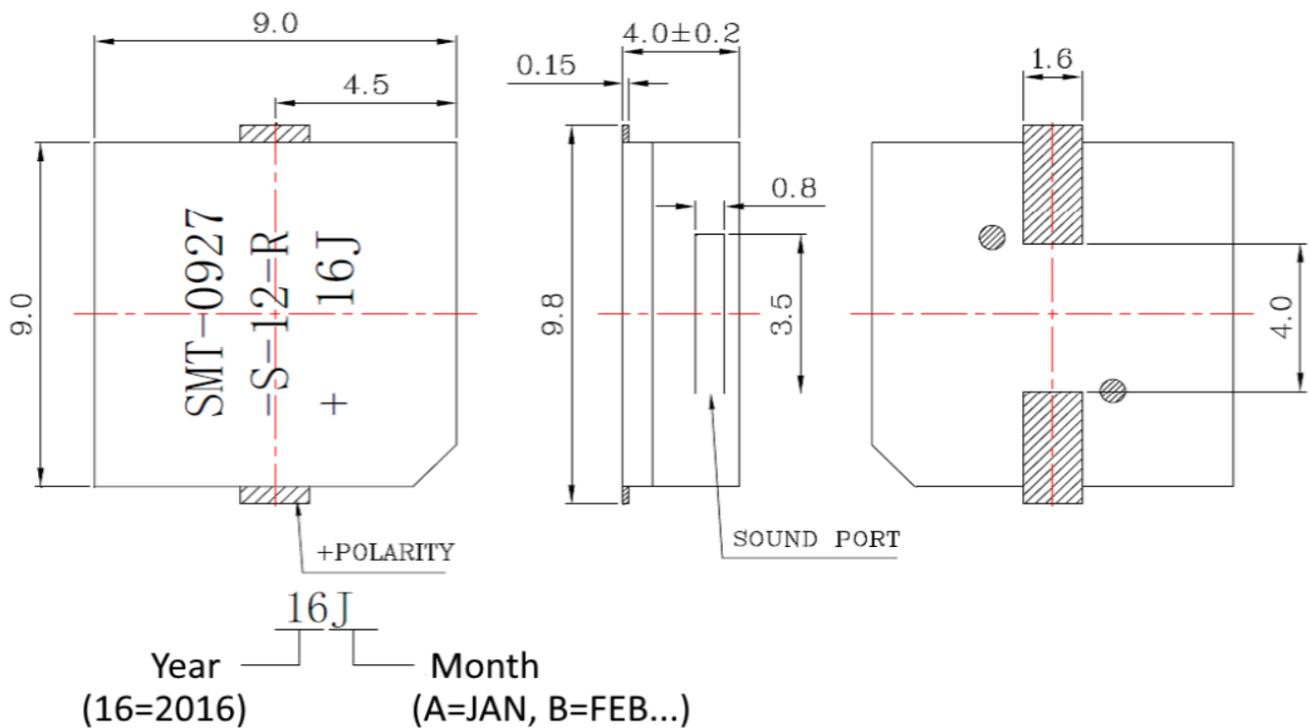
After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be within $\pm 10\text{dB}$ of initial value.

Suggested Reflow Profile

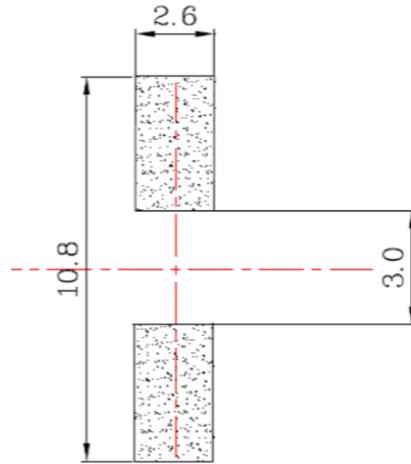


***Manual Soldering Iron Temperature 350C, Soldering Time within 2-3 seconds.**

Dimensions (Tolerance: ±0.5mm unless otherwise specified)

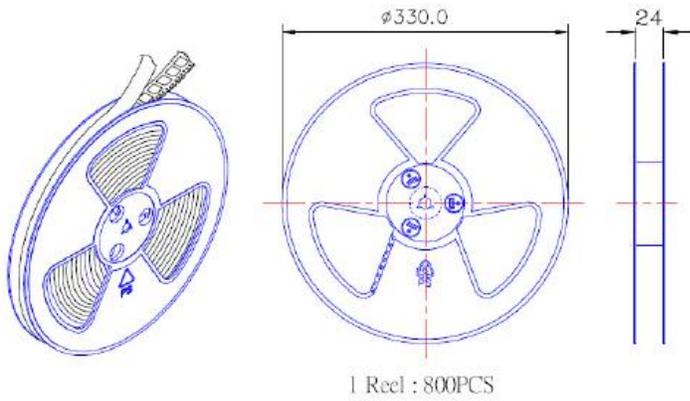


Suggested Land Pattern*



*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.

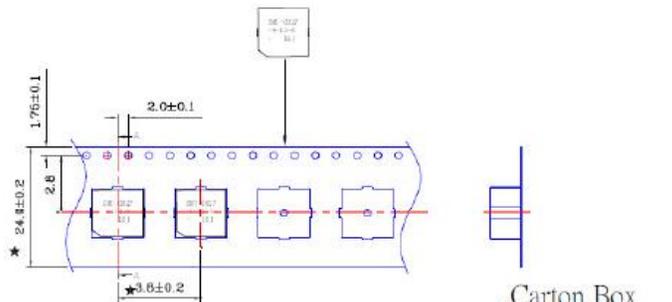
Packaging



Humidity Indicator

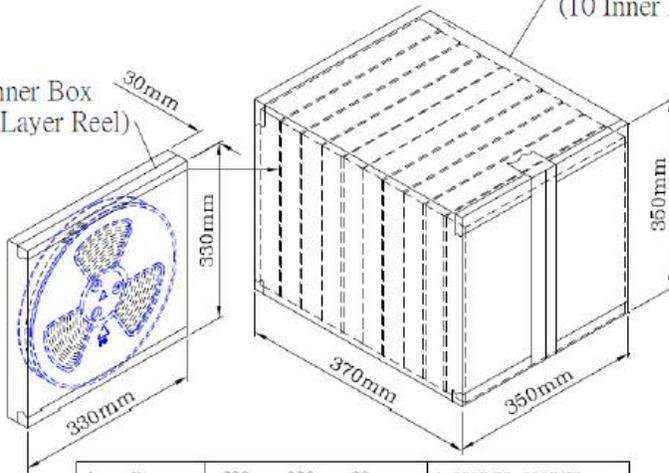


MSL instruction card



Carton Box (10 Inner Box)

Inner Box (1 Layer Reel)



Inner Box	330mmx330mmx30mm	1x800PCS=800PCS
Carton Box	350mmx350mmx370mm	10x800PCS=8,000PCS



Vacuum seal bag with silica gel

Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	01/19/2017	-
A	Update Spec Format, Add details for Reliability, Packaging, etc.	02/06/2025	ML

Note:

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