



PUIaudio



Data Sheet

AT-2460-TWT-R

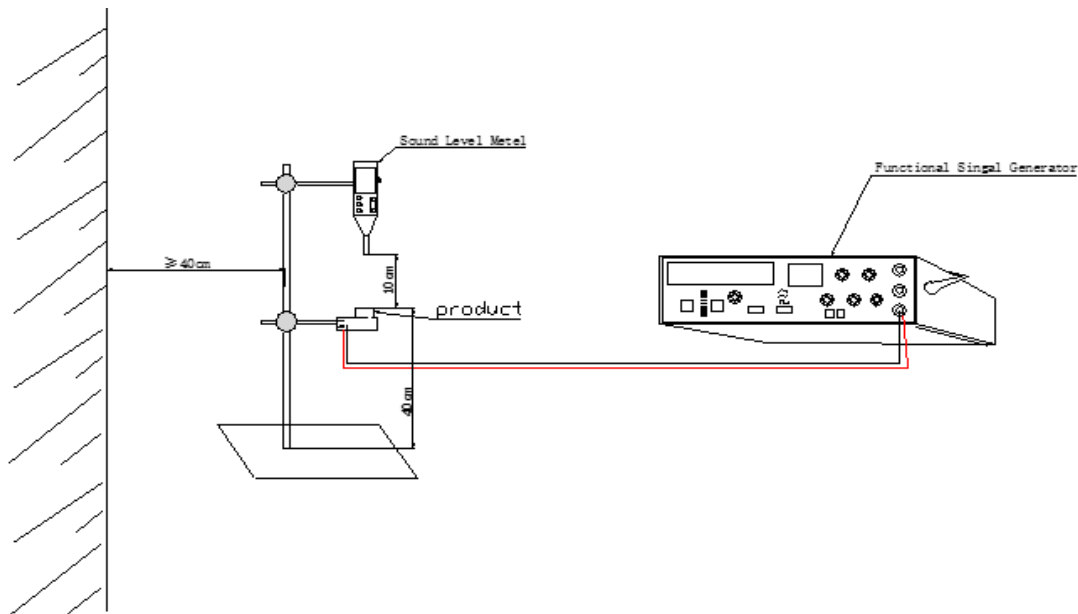
Features:

- Piezo Transducer
- 10Vp-p rated, 6000Hz
- Wave Solder Allowed, Washing NOT Allowed

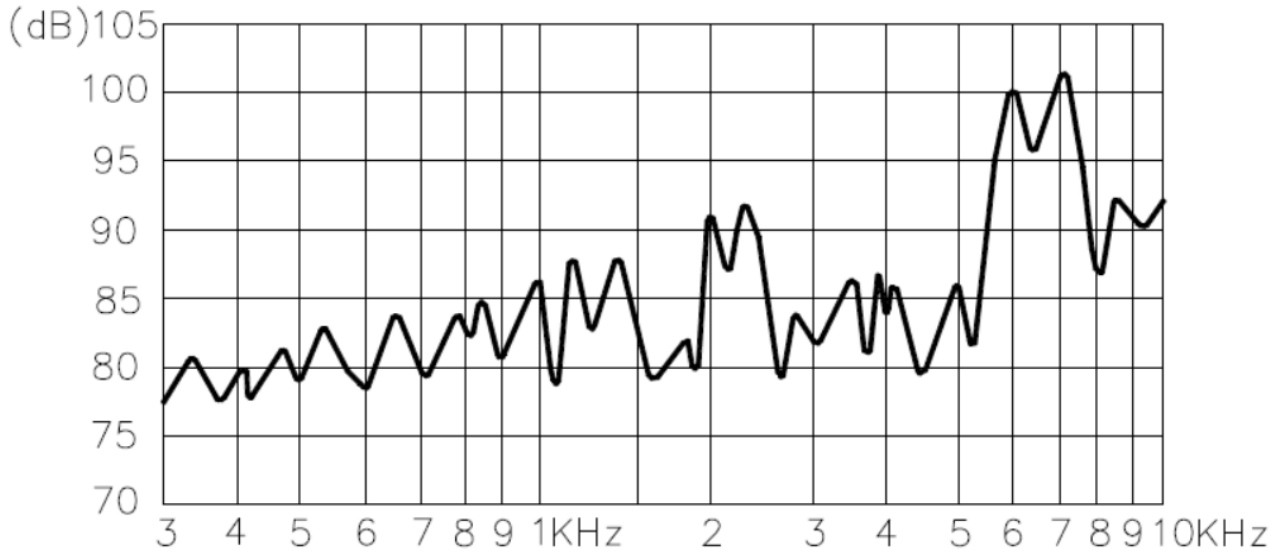
Specifications

Parameters	Values	Units
Rated Voltage	10	Vp-p
Operating Voltage Range	1 ~ 30	Vp-p
Current Draw at Rated Voltage	8(Max.)	mA
Capacitance at 1kHz	12,000 ± 30%	pF
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	6,000 ± 500	Hz
Housing Material	ABS	-
Terminal Material	Sn Plated Bronze	-
Weight	2.3	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	See following pages
Environmental Compliances	ROHS/REACH	Exemption 7c-1
Storage Temperature	-40 ~ +95	°C
Operating Temperature	-30 ~ +85	°C

Measurement Method (10Vp-p, 6000 Hz square wave)



Typical Frequency Response

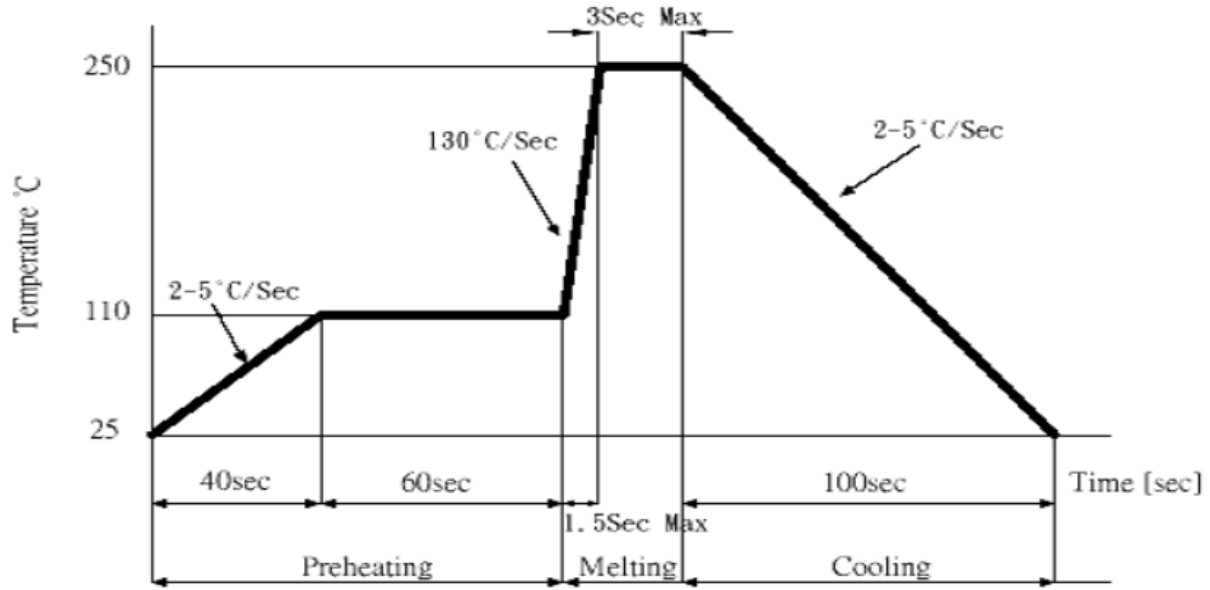


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Placed in chamber at +95°C for 240 hours, then rested for 4 hours at +25°C.
Low Temperature Test	Placed in chamber at -40°C for 240 hours, then rested for 4 hours at +25°C.
Humidity Test	Placed in chamber at +40°C and 90±5% RH for 240 hours, then rested for 4 hours at +25°C.
Temperature Cycle Testing	Cycle repeated 5 times, then rested for 4 hours at +25°C.
Vibration Test	1.5mm amplitude vibration band between 10 ~ 55Hz applied to each direction (X, Y, Z) for 2 hours each (6 hours total).
Drop Test	Free drop a unit from the height 70cm to the surface of 10mm thick board, 3 times in each direction (X, Y, Z) (9 times total).
Continuous Life Test	48 hours continuous operation at +70°C, at rated voltage.
Intermittent Life Test	1 minute on, 1 minutes off, minimum of 5000 times at +25±2°C, at rated voltage.

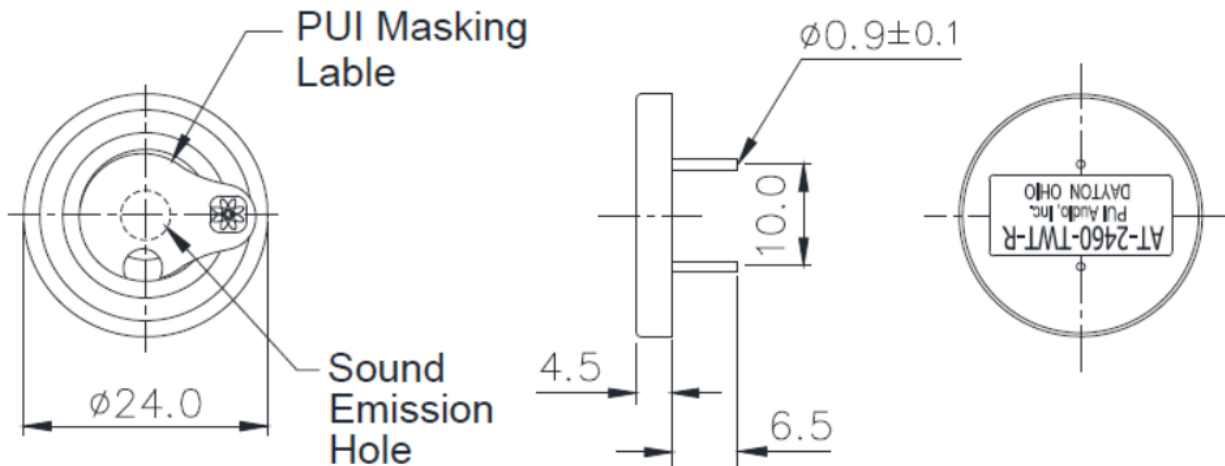
After tests, values shall be within ±10% of initial after tests, while SPL shall be within ±10dB after tests.

Recommended Wave Solder Profile

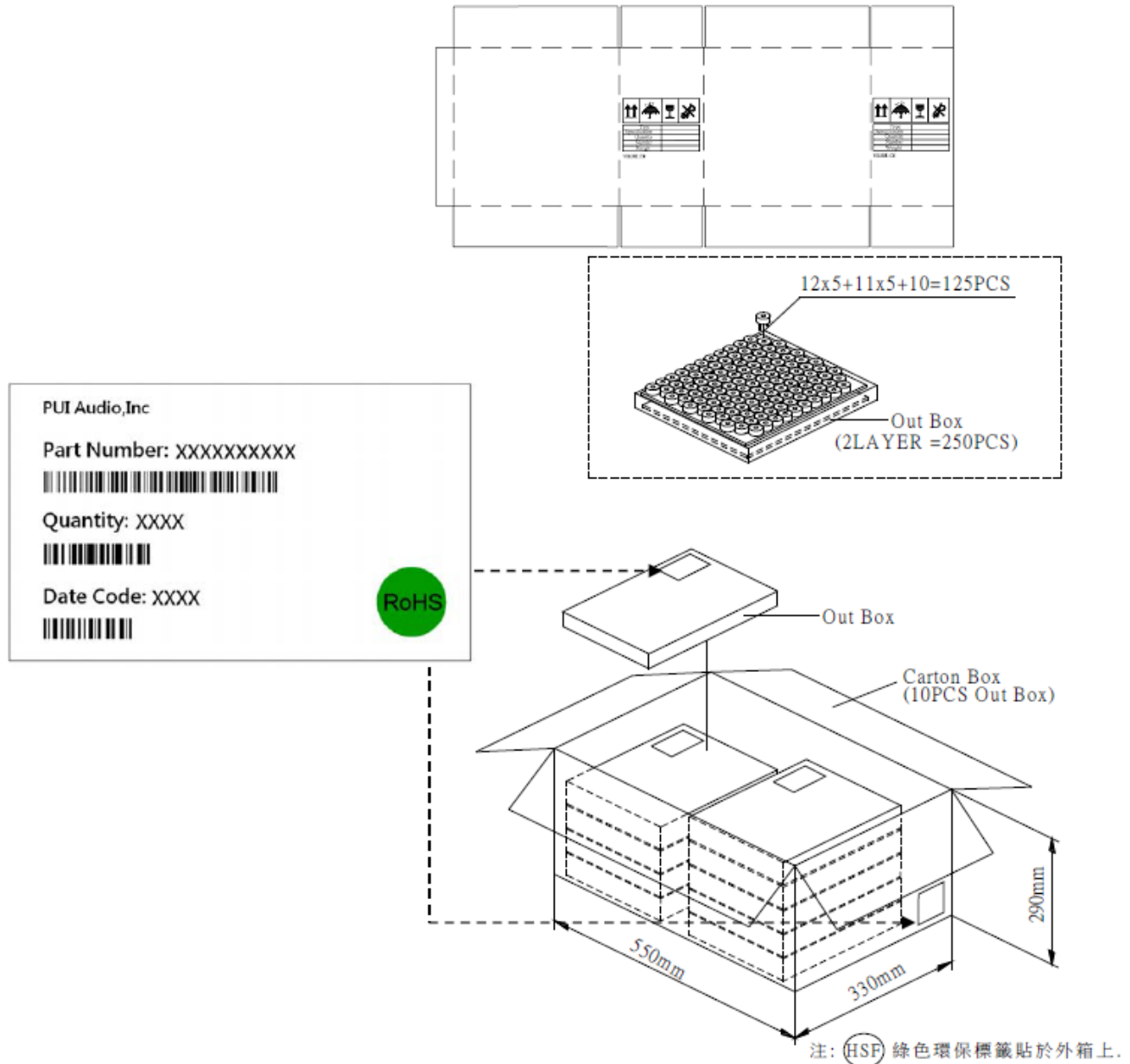


*Manual Soldering Temperature 330C-360C, time ≤ 3 seconds.

Dimensions



Packaging



Out Box	310mmx248mmx49mm	2x125PCS=250PCS
Carton Box	550mmx330mmx290mm	250PCSx10=2,500PCS

Specification Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	02/27/2006	-
A	REVISED PIN DIAMETER	09/02/2008	BR
B	REVISED TO INVENTOR 3D DRAING TEMPLATE	09/12/2008	BR
C	REVISED WEIGHT AND PIN DIAMETER	02/27/2020	MV
D	Update Spec Format, Add Details for Reliability, Packaging, etc.	10/24/2024	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.