

Data Sheet SMT-1830-TW-2-R

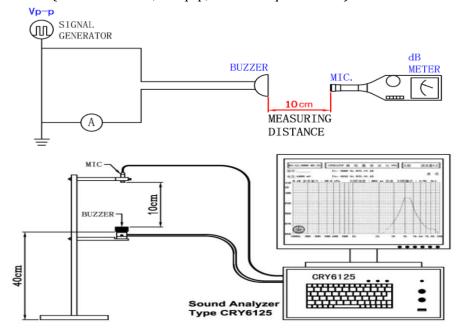
- SMD Piezo Transducer W/ Wash Tab
- MSL 2a

Specifications

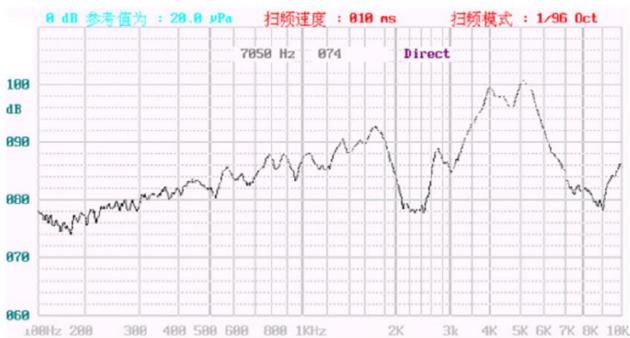
Parameters	Values	Units
Rated Voltage	10	Vp-p
Operating Voltage Range	1 ~ 30	Vp-p
Current Draw at Rated Voltage	7	mA
Capacitance @ 100Hz/1V	20,000 ± 30%	pF
Minimum SPL @ 10cm	86	dBA
Resonant Frequency	$3,000 \pm 500$	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Moisture Sensitivity Level (MSL)	2a	-
Weight	4	Grams
Acceptable Soldering Methods	Hand Solder/Reflow Solder	-
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-30 ∼ +80	°C
Operating Temperature	-20 ∼ +70	°C

Measurement Method (Temperature: 25±2°C; Relative Humidity: 45-65%)

Standard Test Fixture (Distance: 10cm, 10Vp-p, 3000Hz square wave)



Typical Frequency Response

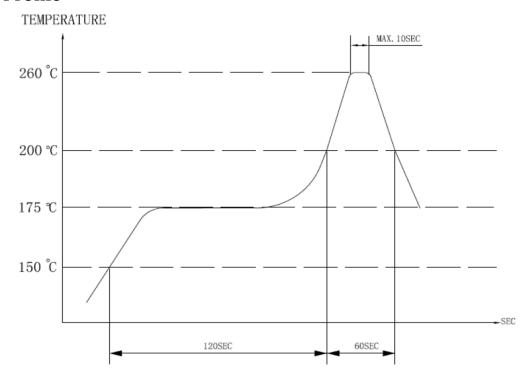


Reliability Testing

Renability Testing			
Type of Test	Test Specifications		
High Towns and the Took	96 hours at +80°C±2°C then rest at room temperature for 2 hours without applying power		
High Temperature Test			
Low Temperature Test	96 hours at -30°C±2°C then rest at room temperature for 2 hours without applying power		
Humidity Test	96 hours at +40°C±2°C with relative humidity at 90-95% then rest at room temperature for 2 hours without applying power		
Temperature Cycle Testing	Test for 5 cycles without applying power, then expose to room temperature for 2 hours		
Vibration Test	Apply vibration amplitude of 1.5mm with 10-55Hz band frequency In X,Y,Z directions for 2 hours each (6 hours total)		
Drop Test	Drop a piece from a height of 75cm to the surface of a 4cm thick board, drop any direction, 6 times.		

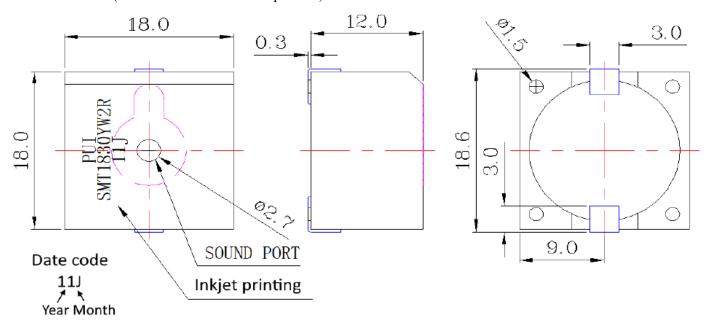
After these tests, the piece should test within ± 10dB of the original SPL

Reflow Profile

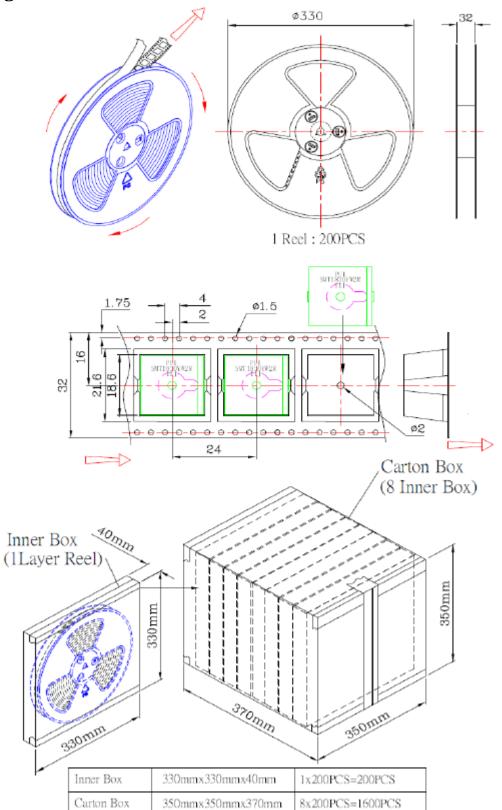


^{*}Manual Solder Iron temperature 350°C and solder time 2-3 seconds per terminal.

Dimensions (Tolerance ± 0.5mm unless specified)



Packaging



This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited.

©2021, PUI Audio Inc.

Specifications Revisions

Revision	Description	Date
-	RELEASED FROM ENGINEERING	11/11/2011
A	Revised Height Dimension	02/01/2012

Note:

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