


SPECIFICATION

Model : Piezo Buzzer
 Spec No. : ST-0503-3


Customer Approval Status	SOBERTON File Publish Sign
Dsg'd : _____	Edition : <u>A</u>
Chk'd : _____	
App'd : _____	
File Publish Sign	File clerk : _____




211 North First Street Minneapolis, MN. 55401



Dsg'd



Chk'd



App'd

Sales **Kimberly Scheerer**

Web-site: www.soberton.com

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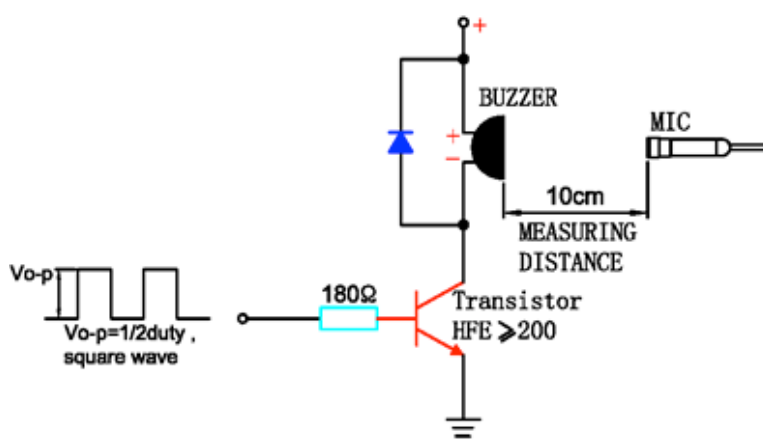
D. TESTING METHOD

Standard Measurement conditions

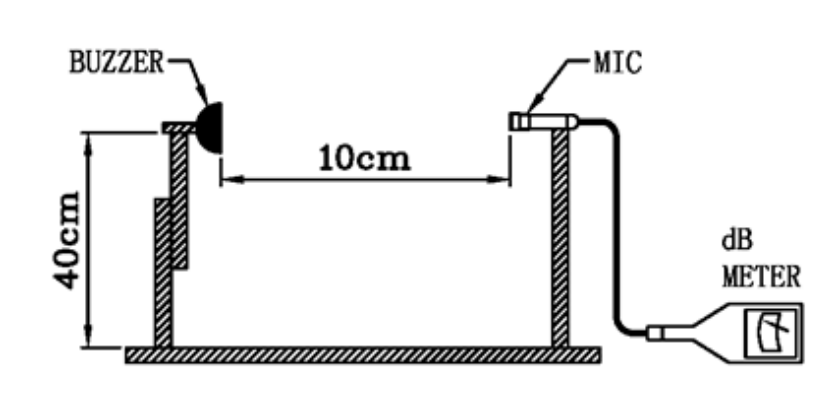
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

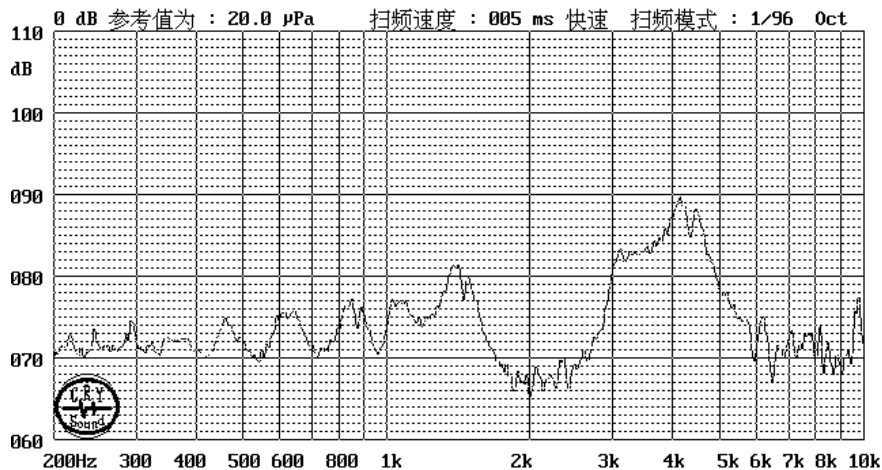
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:

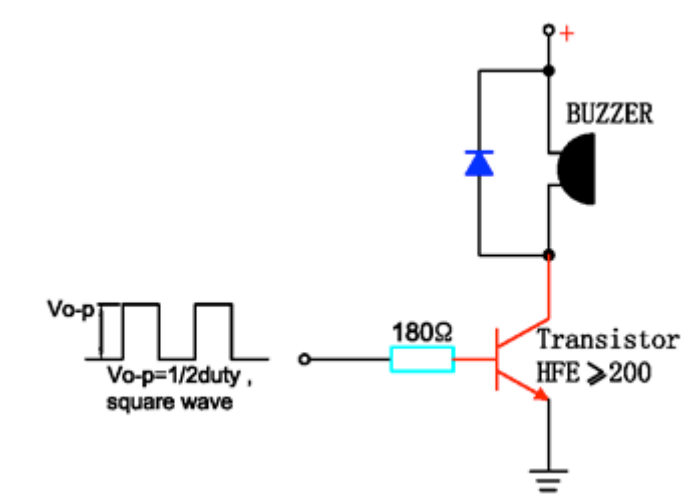


E. Typical Frequency Response Curve



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F. Recommend Driving Circuit



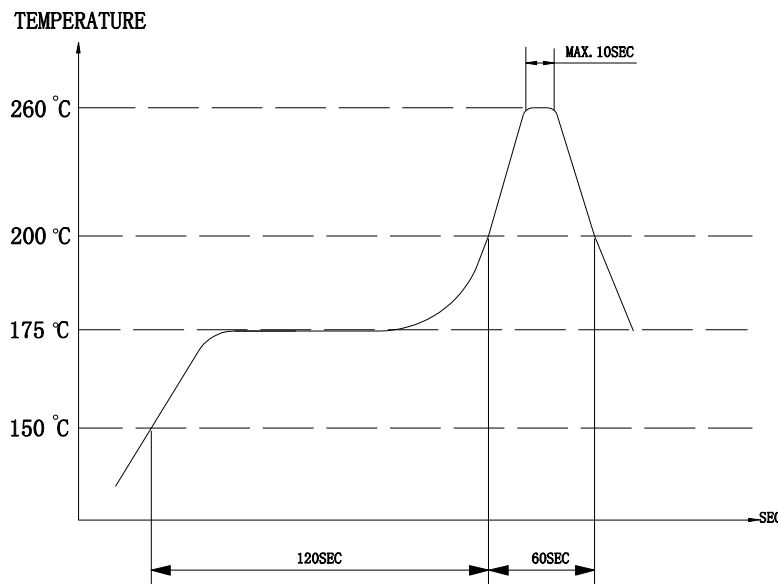
The base current I_b should high enough so that it saturates the collector current of the transistor with the CB load.

G. Soldering Condition

(1)Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note:It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

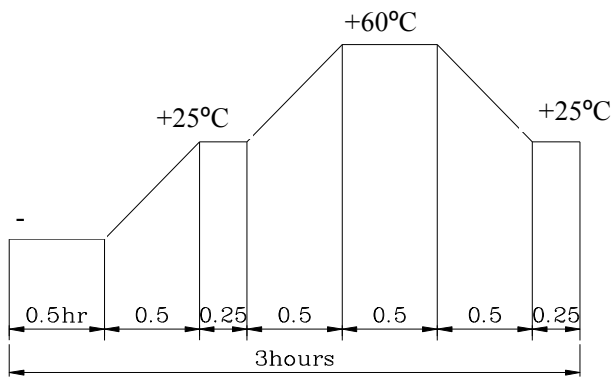
(Used when heat resistant reliability test is performed)

(2)Manual soldering

Manual soldering temperature 350° C within 5 sec.

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H. RELIABILITY TEST

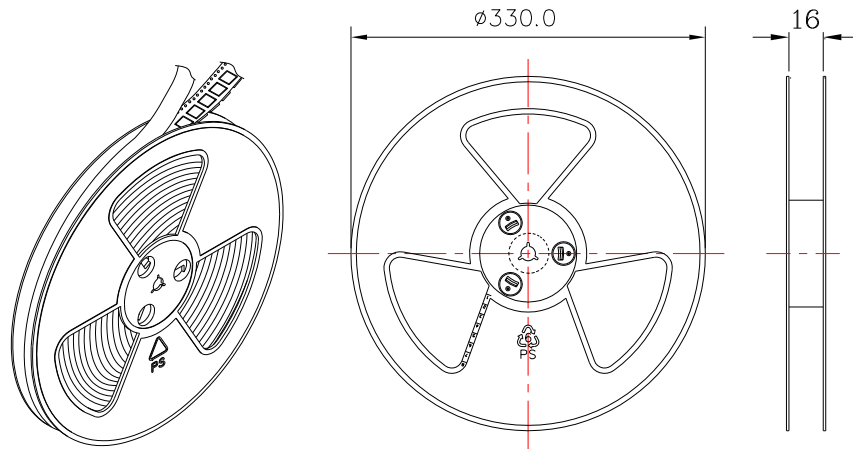
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>The diagram shows a temperature cycle profile over 3 hours. It starts at a baseline temperature (indicated by a minus sign '-'). The cycle consists of: a 0.5-hour dwell at the baseline, a 0.5-hour ramp up to +25°C, a 0.25-hour dwell at +25°C, a 0.5-hour ramp up to +60°C, a 0.5-hour dwell at +60°C, a 0.5-hour ramp down to +25°C, a 0.5-hour dwell at +25°C, and a final 0.25-hour dwell at +25°C. The total duration of one cycle is 3 hours.</p> <p>Allowable variation of SPL after test: ±10dB.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: ±10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

TEST CONDITION.

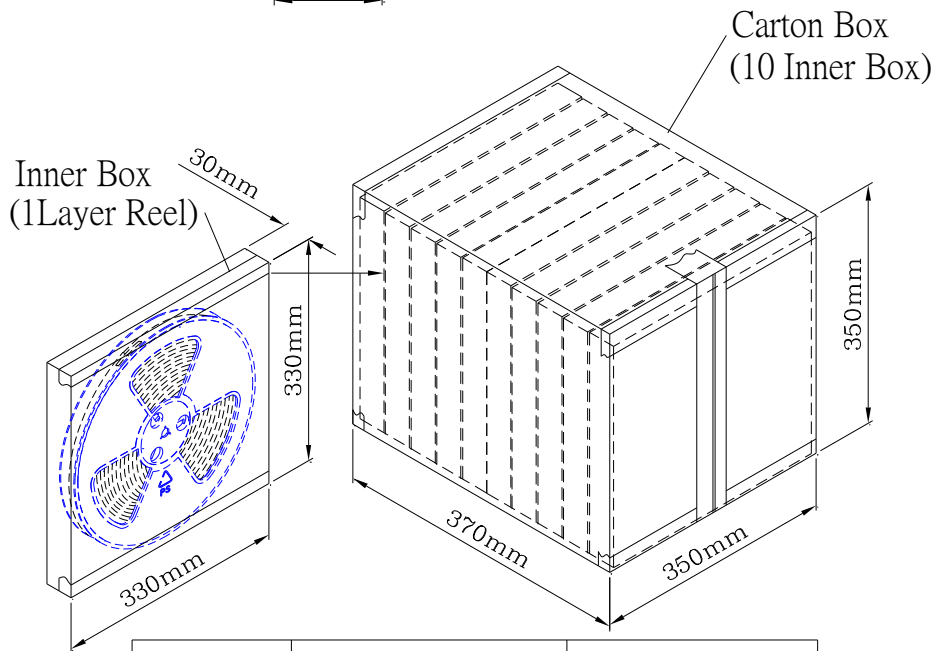
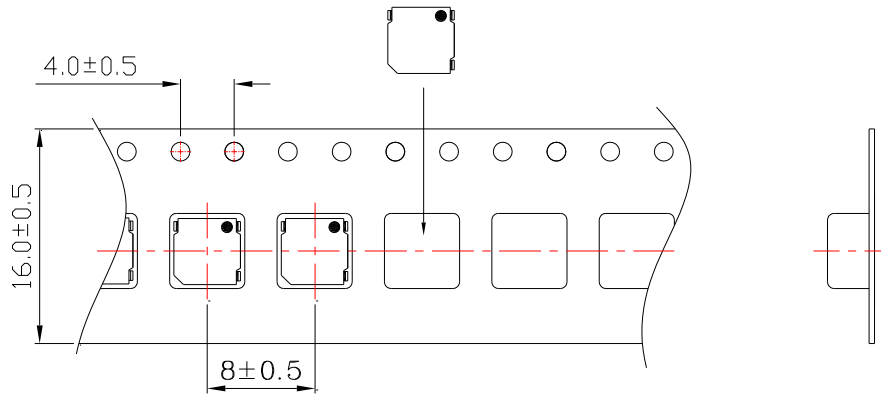
Standard Test Conditio : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

Judgment Test Conditio : a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

I. PACKING STANDARD



1 Reel : 2500PCS



Inner Box	330mmx330mmx30mm	1x2500PCS=2500PCS
Carton Box	350mmx350mmx370mm	10x2500PCS=25,000PCS