OBO Pro.2	SPECIFICATIONS	MODEL NO OBO-09240SD
	PART NAME Piezoelectric Buzzer	SHEET 1 OF 7

ALTERNATION HISTORY							
Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
- -	JAN.30.2018	---	暫定	Provisional Document	7	徐潇	林建宏

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
暫定	JAN.30.2018	徐潇	林建宏	林建宏

MODEL NO : OBO-09240SD

Features : External drive.

Conformity RoHS Directive(2011/65/EU) Requests.

1. General Specifications:

	Items	Spec.
1.1	Sound Pressure Level	65dB Min. at 4.0 KHz/1.5Vp-p Square Wave/10cm.
1.2	Capacitance	12,000pF±30% at 120Hz
1.3	Current Consumption	3mA Max. at 4.0KHz/1.5Vp-p Square Wave
1.4	Allowable Input Voltage	25Vp-p Max.
1.5	Case Material	LCP(Black)
1.6	Lead Pin Material	Tin Plated Brass(Sn)
1.7	Operating Temp. Range	-40℃ to +85℃
1.8	Storage Temp. Range	-40℃ to +85℃
1.9	Weight	0.3 gms

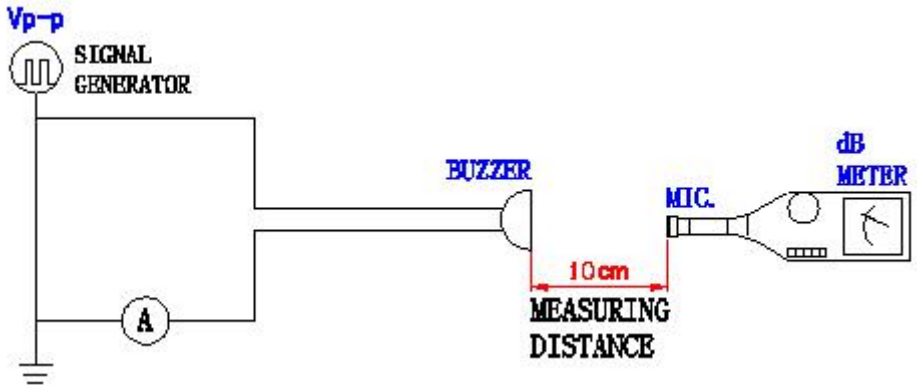
2. Test Method :

2.1 Standard Measurement conditions

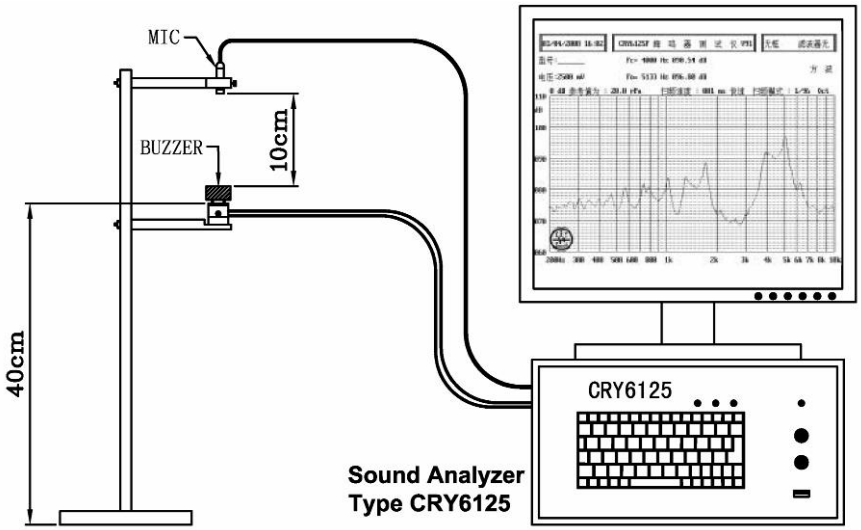
Temperature:25±2℃ Humidity:45-65%

2.2 Acoustic Characteristics:

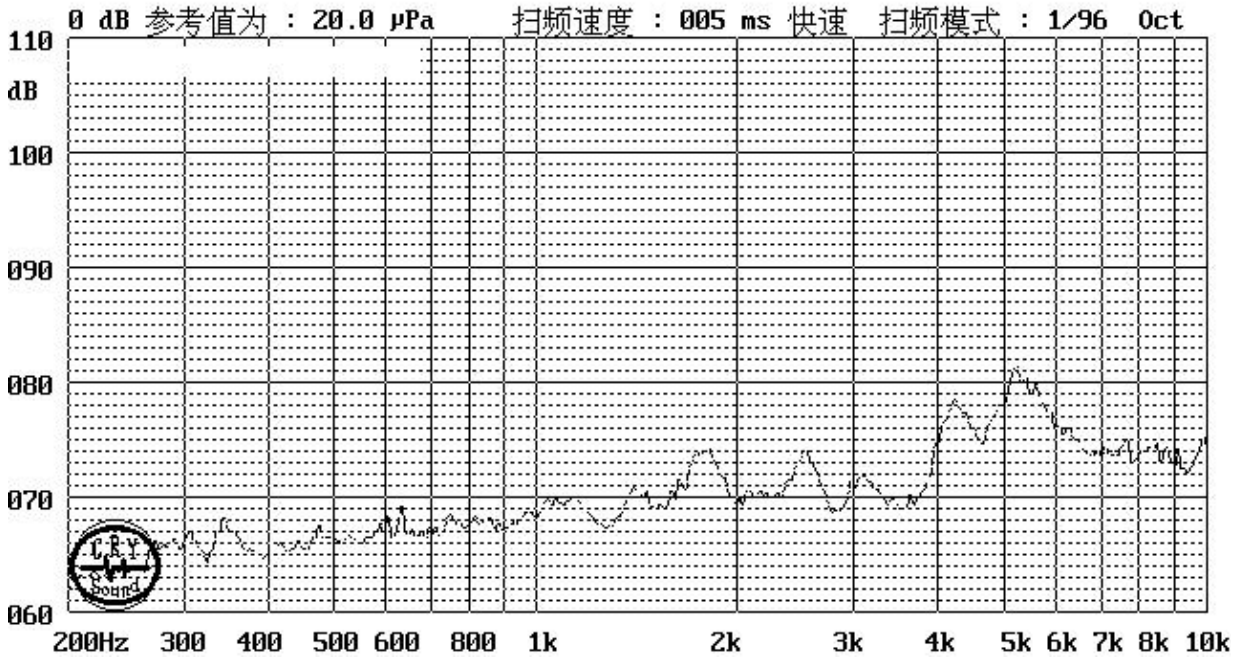
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



2.3 In the measuring test, buzzer is placed as follows:



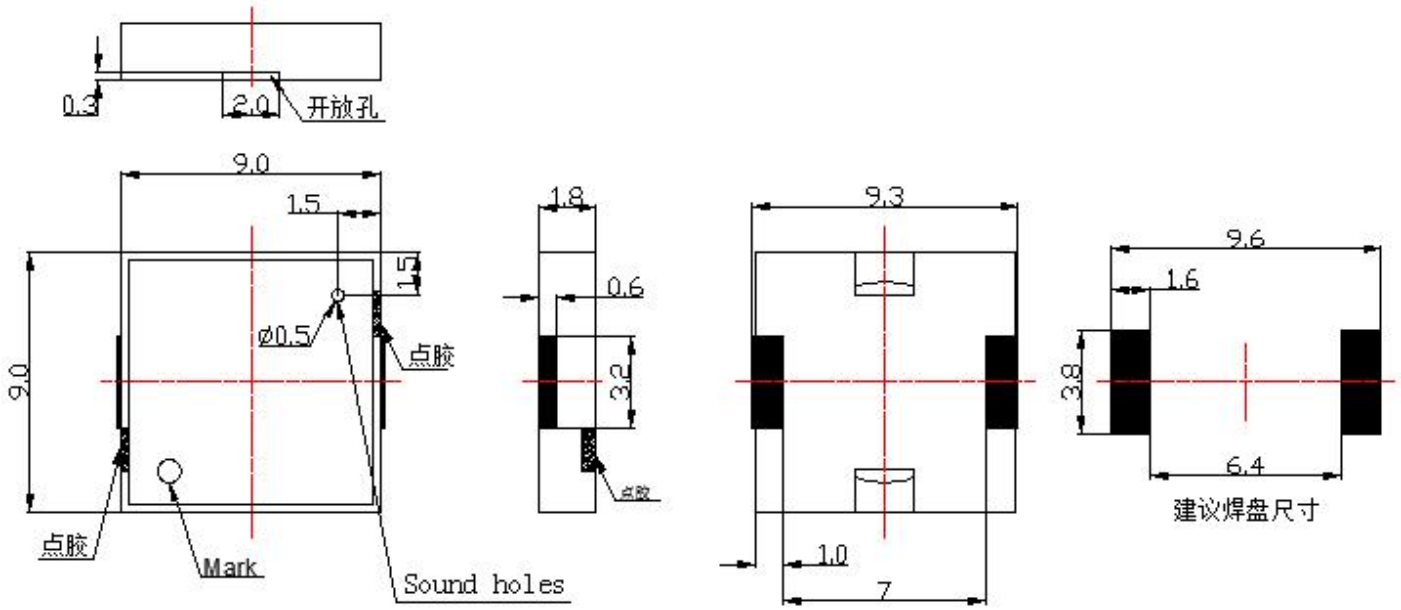
3.Typical Frequency Response Curve



4. Mechanical Layout and Dimensions:

4.1 Dimendions

Tolerance: ±0.2mm Unit: mm



5. Standard Test Condition:

5.1 Standard State

Ordinary Temperature	5℃ to 35℃
Ordinary Humidity	45% to 85%R.H.
Ordinary air pressure	860 to 1060hPa

5.2 Basic State

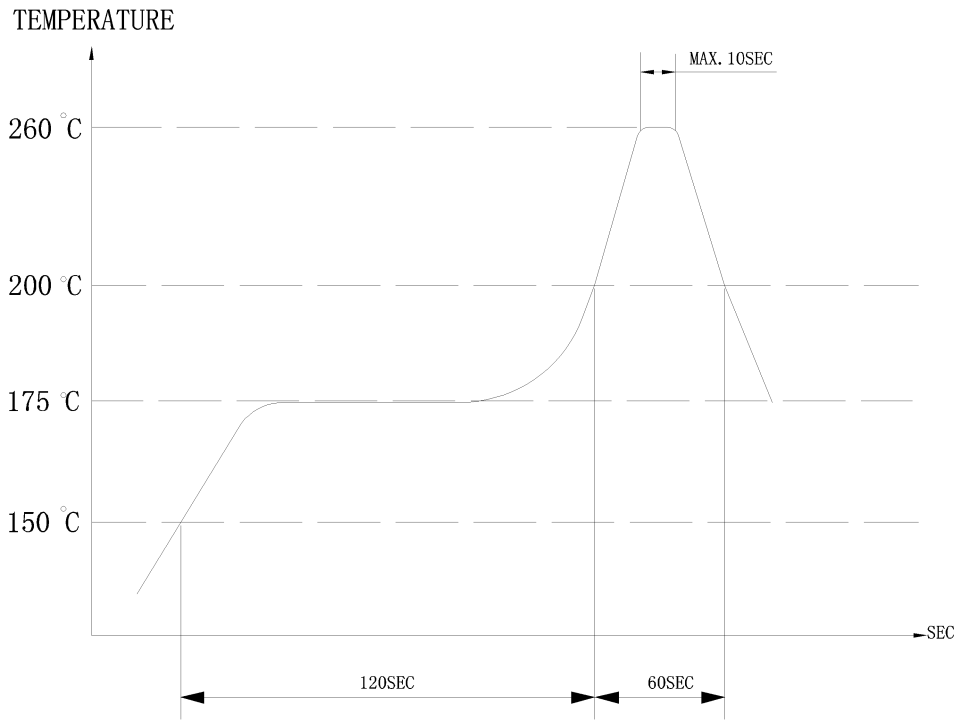
Temperature	25±2℃
Humidity	60% to 70%R.H.
Ordinary air pressure	860 to 1060hPa

6. 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.



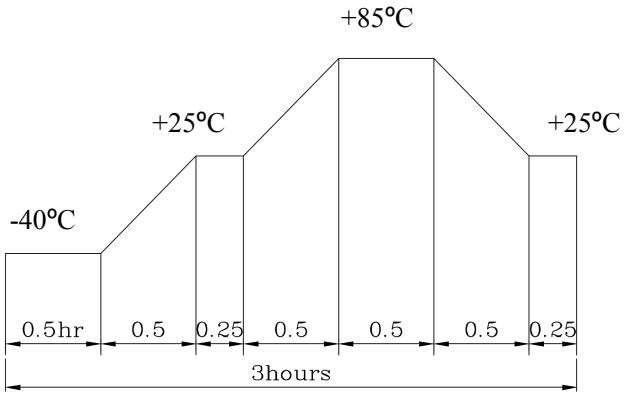
Heat resistant line

(Used when heat resistant reliability test is performed)

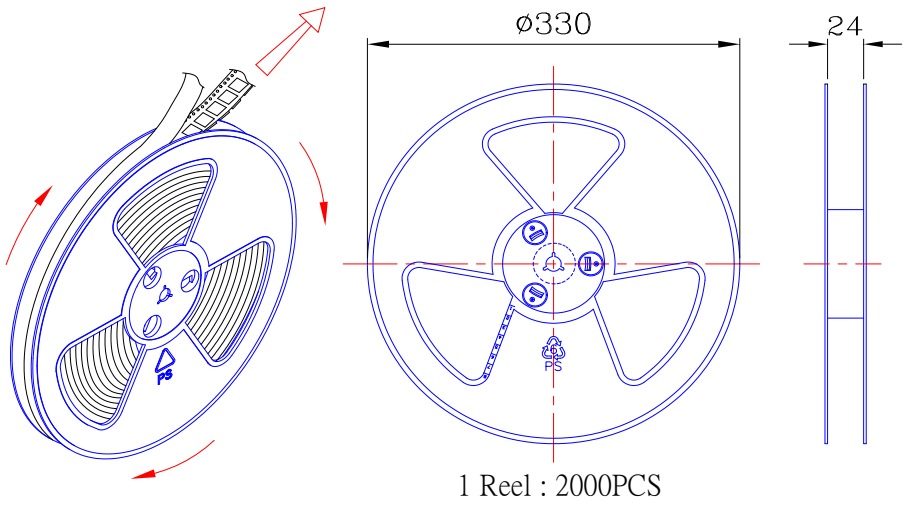
(2)Manual soldering

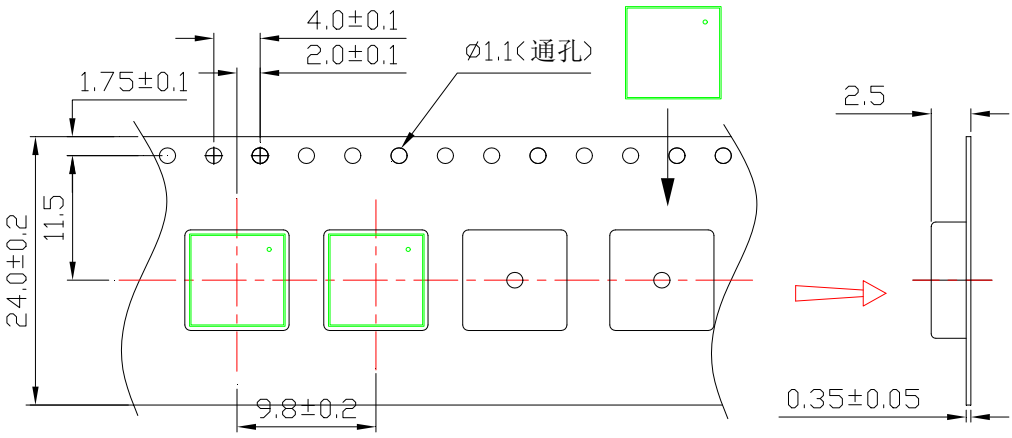
Manual soldering temperature 350º C within 5 sec.

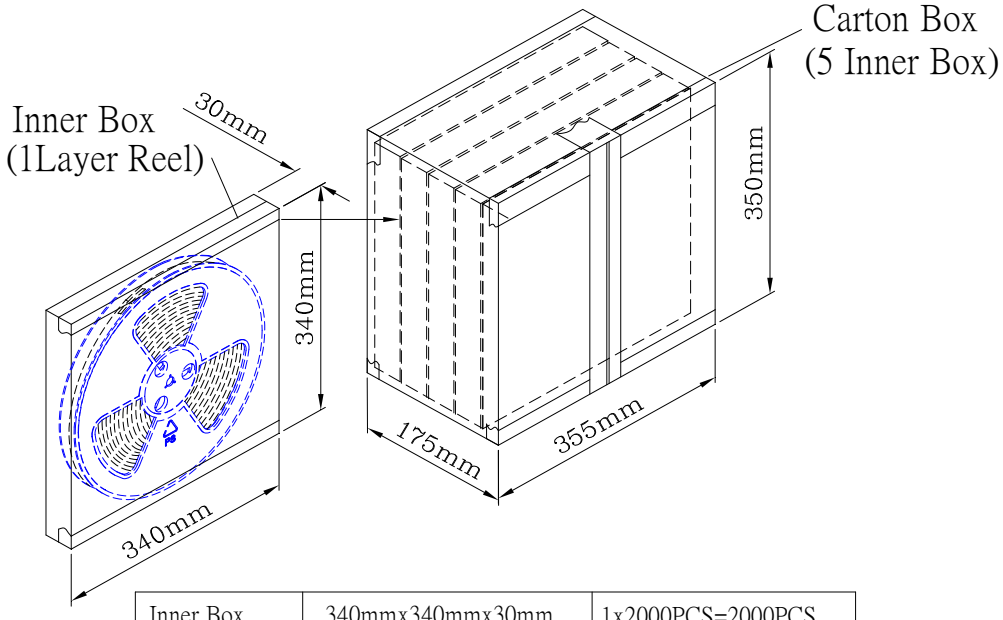
7. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 85±2ºC 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 -40±2ºC 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±2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of：  Allowable variation of SPL after test: ±10dB.
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±5ºC 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.

8. **Packing :**







Inner Box	340mmx340mmx30mm	1x2000PCS=2000PCS
Carton Box	350mmx355mmx175mm	5x2000PCS=10,000PCS