



**SPECIFICATIONS**

MODEL NO  
OBO-14240SB

PART NAME  
Piezoelectric Buzzer

SHEET  
1 OF 5

OBO PRO.2 INC

2013.01.30

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**ALTERNATION HISTORY**

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
--	JAN.21,2013	---	B	<b>Change capacity</b>	5	羅小燕	林建宏

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
B	JAN.21,2013	羅小燕	韋澤龍	林建宏

**MODEL NO : OBO-14240SB**

Features : External drive.

Conformity RoHS Directive(2002/95/EC) Requests.

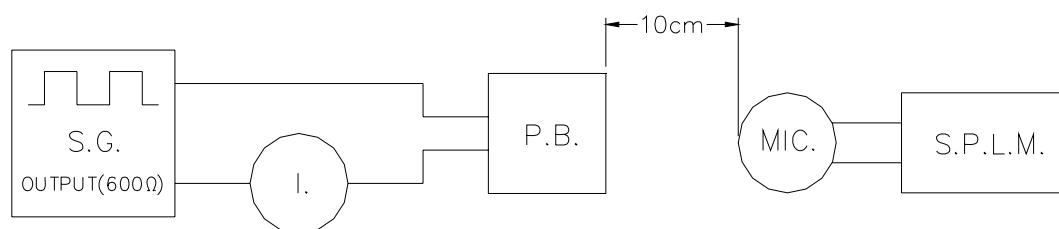


**1. General Specifications:**

	Items	Spec.
1.1	Sound Pressure Level	80dB Min. at 4.0KHz/9.0Vp-p, Square wave/10cm 70dB Min. at 1Vms/4.0KHz, sine wave/10cm
1.2	Capacitance	15,000pF±30% at 100Hz
1.3	Current Consumption	3mA Max. at 4000Hz/9.0Vp-p
1.4	Allowable Input Voltage	25Vp-p Max.
1.5	Case Material	LCP( Black )
1.6	Lead Pin Material	Plated Brass(Au)
1.7	Operating Temp. Range	-30°C to +85°C
1.8	Storage Temp. Range	-40°C to +85°C
1.9	Weight	1.2 gms

**2. Test Method :**

2.1 Standard Test Diagram



- S.G. : GAG-808G Audio Ggenerator or Equivalent
- S.P.L.M. : Sound Pressure Level Meter IEC651 TYPE2
- I. : GDM-8145 Multimeter or Equivalent
- P.B. : Piezoelectric Buzzer

Note: please pay attention never to be applied DC voltage to piezo sounder.

2.2 Measuring condition

Part shall be measured under a condition

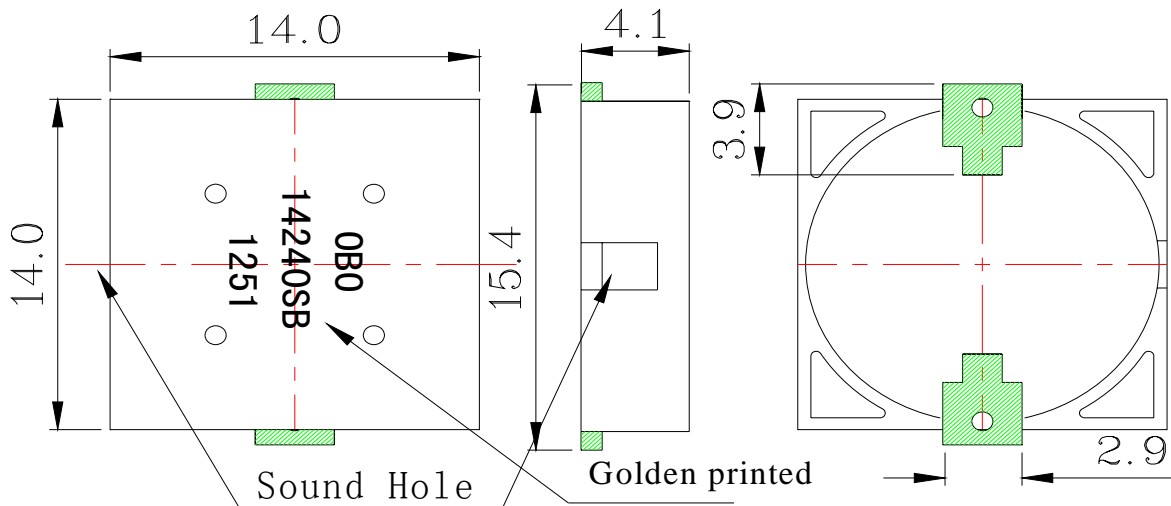
(Temperature: +5°C to +35°C, Humidity: 45% to 85% R.H.)

unless the standard condition (Temperature: +25±3°C,

Humidity: 60±10% R.H.) is regulated to measure.

**3. Mechanical Layout and Dimensions:**

## 3.1 Dimendions

Tolerance:  $\pm 0.3\text{mm}$  Unit: mm

## Note :

Meaning of Stamp Mark

1251 : Production Lot No.

12 : Year 2012 (last 1 figures of the year)

51 : week (01~55)

14240SB : Madel No

## 3.2. Environment-related substances to be controlled.

◎ Piezoelectric Ceramic Disc.

RoHs Annex:

Application of lead, mercury, cadmium and hexavalent chromium,  
which are exempted from the requirement of article 4(1).

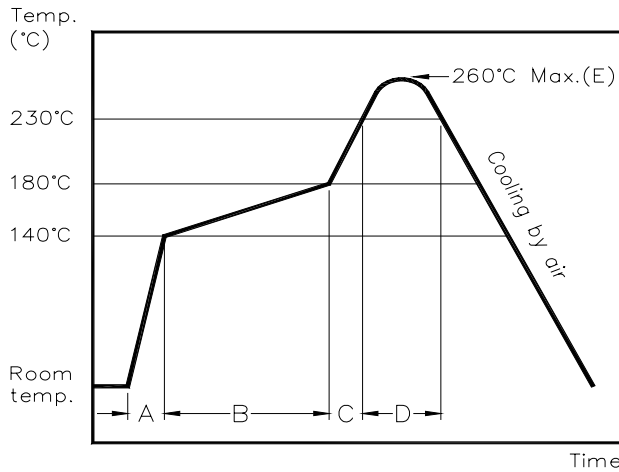
\* Lead in electronic ceramic parts.(e.g. piezoelectronic devices).



**4. Soldering Condition :**

**4.1 Reflow Soldering**

Recommendable reflow Soldering condition is flows.



NO.	Items	Condition	Unit
A	Temp. rise gradient	1 ~ 4	°C/sec
B	Heating time	50~150	sec
	Heating temperature	140~180	°C
C	Temp. rise gradient	1 ~ 4	°C/sec
D	Time over 230°C	48 Max.	sec
E	Peak temperature	260°C Max.	°C
	Peak-temp. hold time	Momentary	sec
Soldering		2	times

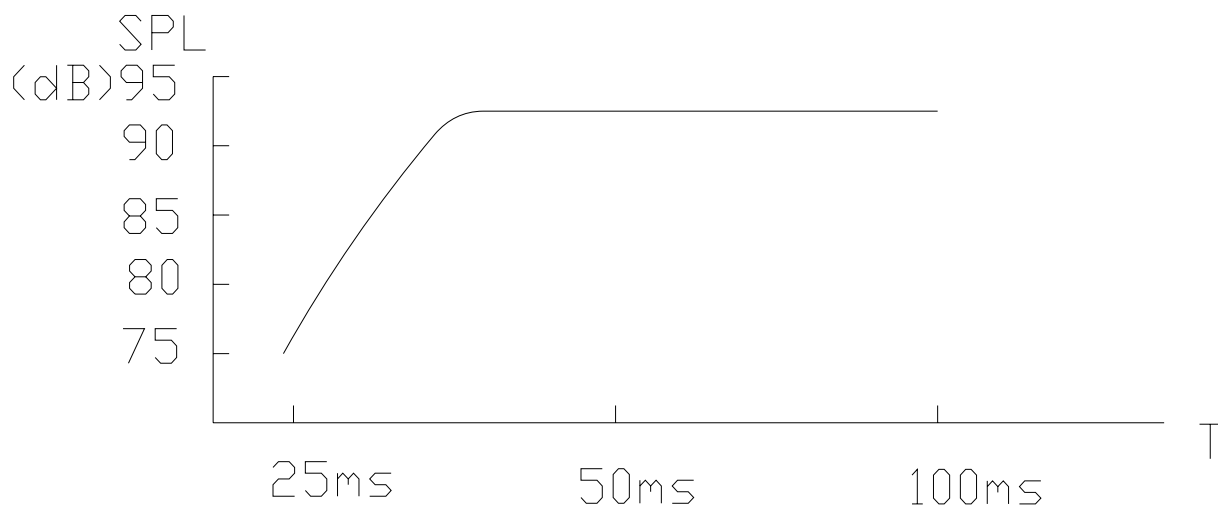
Note: It's requested that second reflows soldering should be executed after heat of product goes down to normal temperature

**4.2 Hand Soldering**

Soldering iron temperature 350°C less than 5 second.

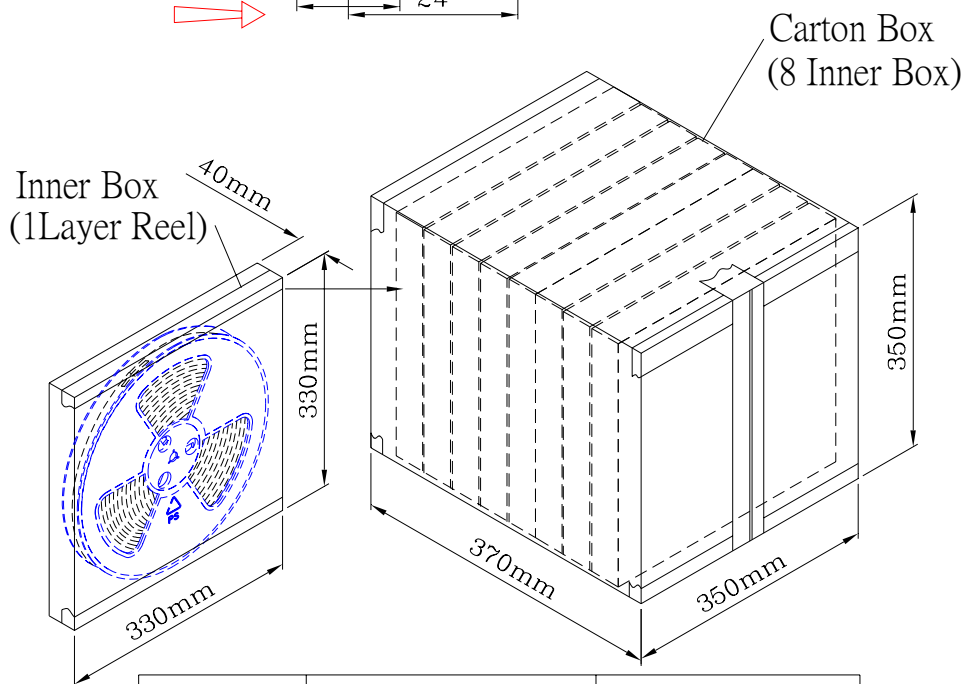
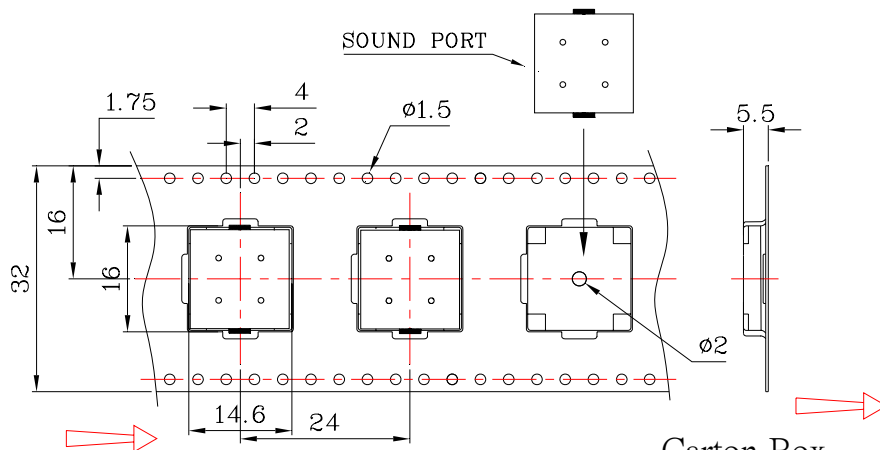
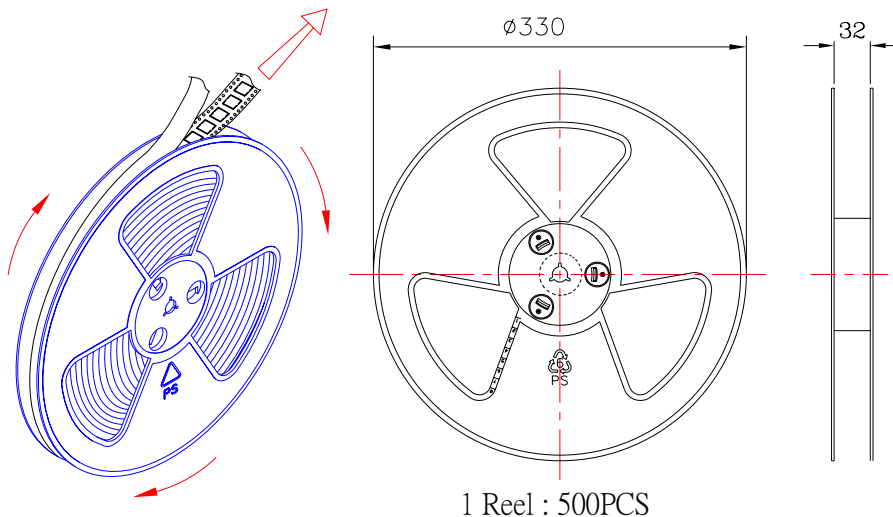
**4.3 Note: T: timing of response**

Output sound pressure with timing response related diagram is as below:



★ Recommend timing response should be over 50ms.

### 5. Packing Information :



Inner Box	330mmx330mmx40mm	1x500PCS=500PCS
Carton Box	350mmx350mmx370mm	8x500PCS=4000PCS