OBO Pro.2	SPECIFICATIONS	MODEL NO. OBO-45BP1
	PART NAME SMD-Electromagnetic Transducer	SHEET 1 OF 9

ALTERNATION HISTORY

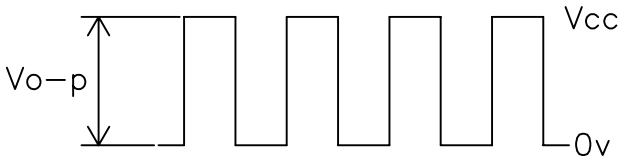
Marking	Date	ECN. NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
--	OCT,28'08	---	A	New document	9	王志偉	謝明福

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
A	OCT.28,2008	王志偉	楊冉	謝明福

MODEL NO :OBO-45BP1

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

1. General Specifications :

	Items	Specification	Conditions
1.1	Rated Voltage	3.0 Vo-p	 Squarewave 1/2 Duty
1.2	Operating Voltage	2-4 Vo-p	
1.3	Resonant Frequency	2700Hz	
1.4	Sound Pressure Level	min. 85dB	Standard State, Standard Drive circuit, Rated Voltage, Distance at 0.1m (A-weight) 2700Hz Squarewave 1/2 Duty.
1.5	Average Current Consumption	max. 100mA	
1.6	Coil Resistance	16±3Ω	
1.7	Operating Temp. Range	-20℃ ~ +60℃	
1.8	Storage Temp. Range	-30℃ ~ +80℃	
1.9	Housing Material	PPS(Black)	
1.10	Weight	0.8g	

2. Standard test Conditions :

2.1 Standard State

Ordinary Temperature	15℃ to 35℃
Ordinary Humidity	45% to 85%
Ordinary air pressure	860 to 1060hPa

In case of doubtful judgment, the test is re-performed under Basic State.

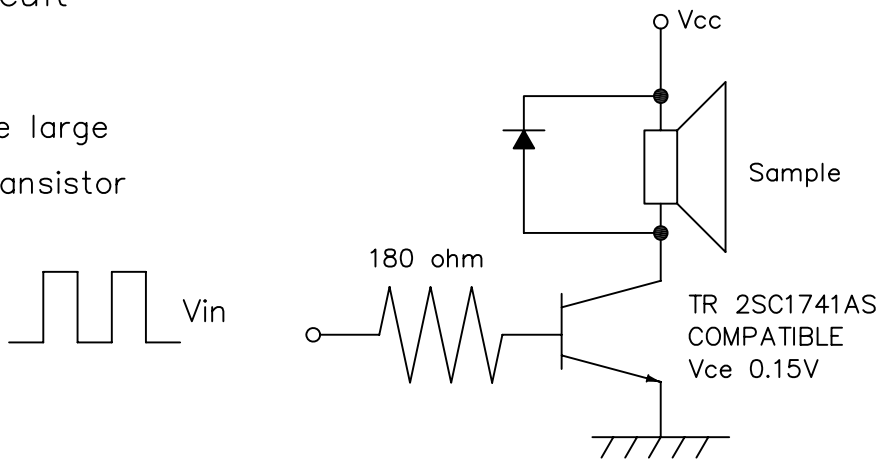
2.2 Basic State

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

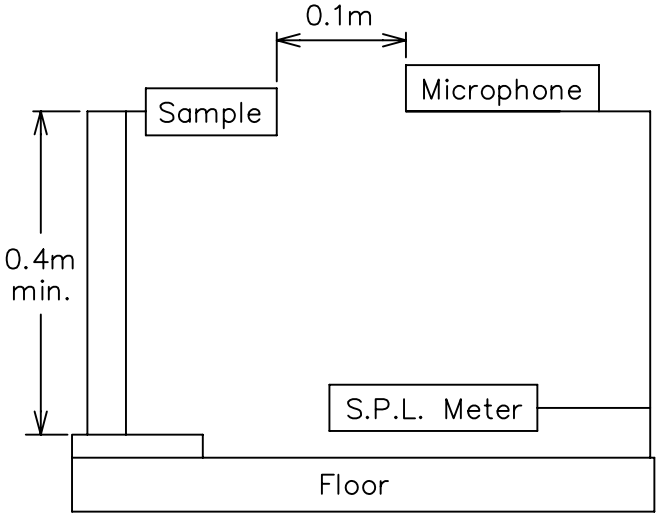
3、Test method :

3.1 Standard Drive Circuit

Signal amplitude should be large enough to saturate the transistor which drives the buzzer.



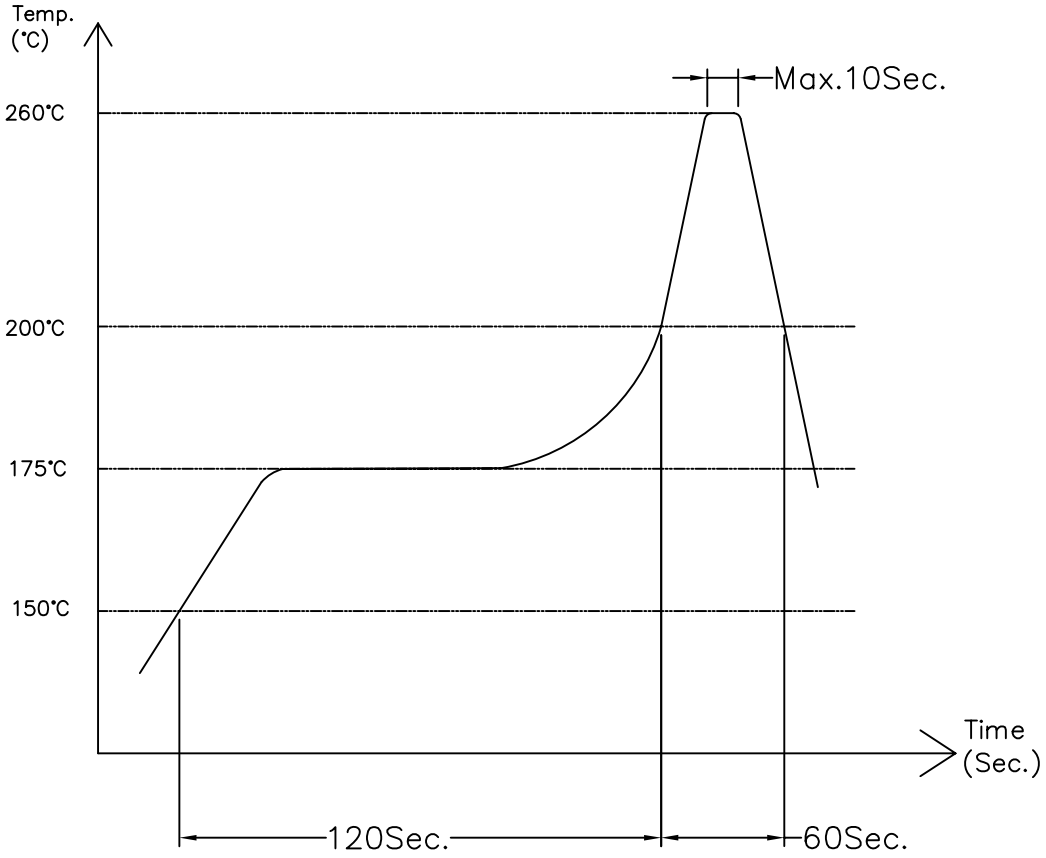
3.2 Standard Test Fixture



4. Soldering Condition :

4.1 Reflow Soldering

Recommendable reflow soldering condition is as follows.



Note :

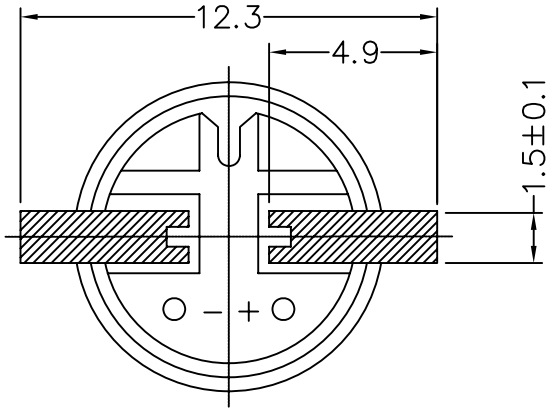
It is requested that second reflow solering should be executed after heat of product goes down to normal temperature.

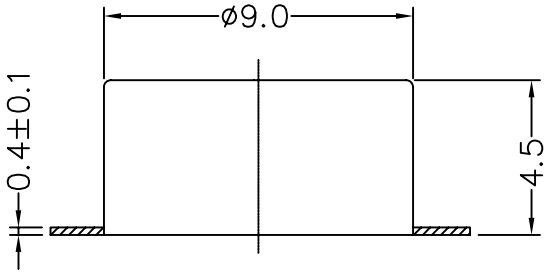
4.2 Hand Soldering

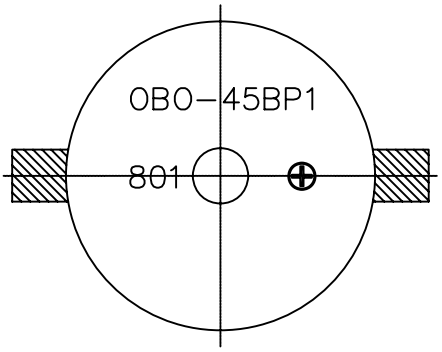
Soldering iron temperature 350℃ less than 5 second.

5. Mechanical Layout and Dimensions

Unit : mm Tolerance : ±0.5mm







Note : Meaning of Stamp Mark

801 : Production Lot No.

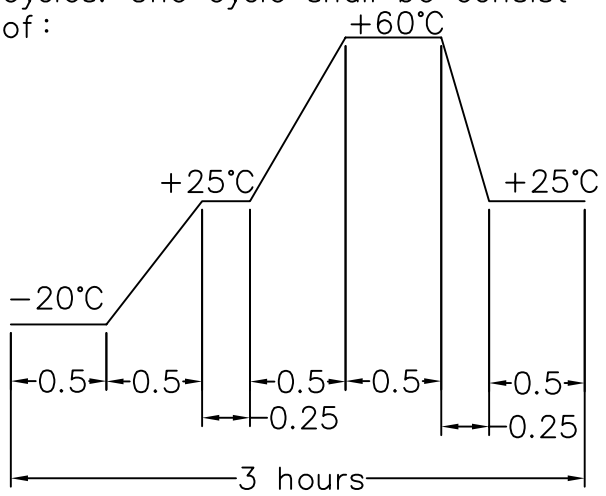
8 : Year 2008 (last 1 figures of the year)

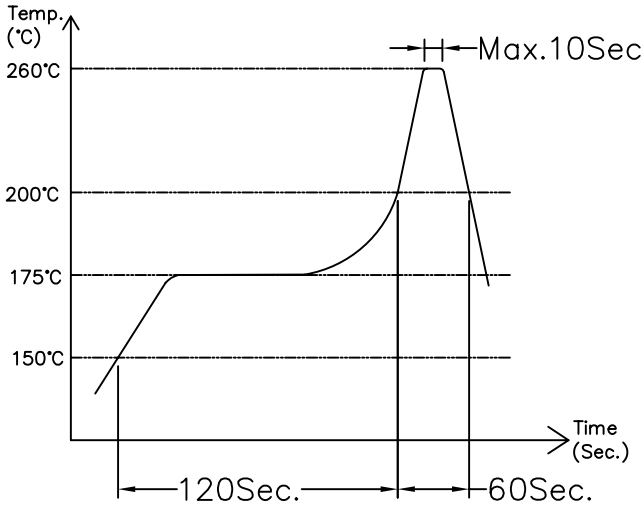
01 : week (01～55)

OBO−45BP1 : Model No.

⊕ : Polarity indentification mark

6. Reliability test :

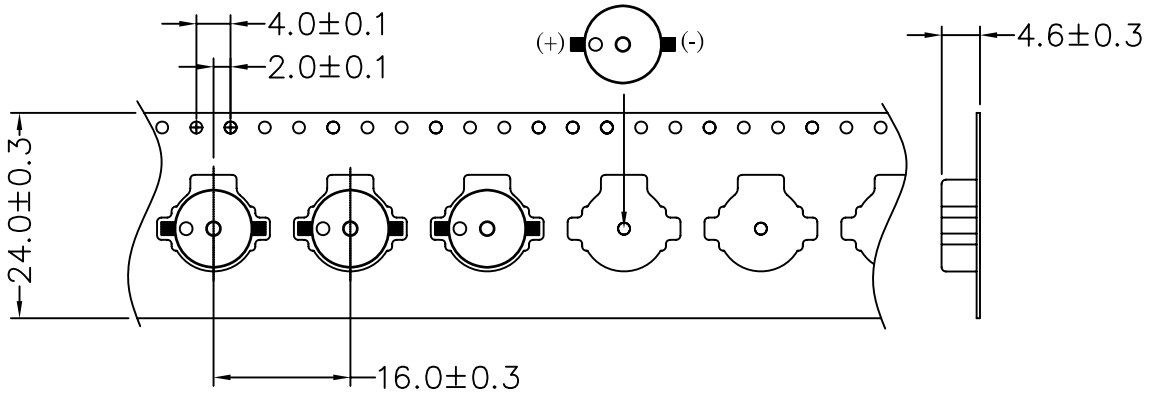
NO.	Items	Test Conditions	Evaluation Criteria
6.1	High Temp. Storage	The part shall be capable of withstanding a storage temperature of +80℃ for 96 hours.	After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 80dB or more.
6.2	Low Temp. Storage	The part shall be capable of withstanding a storage temperature of −30℃ for 96 hours.	
6.3	Thermal Shock	The part shall be subjected to 5 cycles. One cycle shall be consist of : 	
6.4	Humidity Test	The part shall be subjected to +40℃, 90~95% RH for 96 hours, and expose to room temperature for 6 hours.	
6.5	Vibration	10 − 55 − 10Hz, Sinewave Sweep 15 min. X,Y,Z 3 Direction 2 hours each, Total 6 hours.	
6.6	Drop test	Drop on hard wood board of 5cm. thick, any direction, 6 times, at the height of 75cm.	

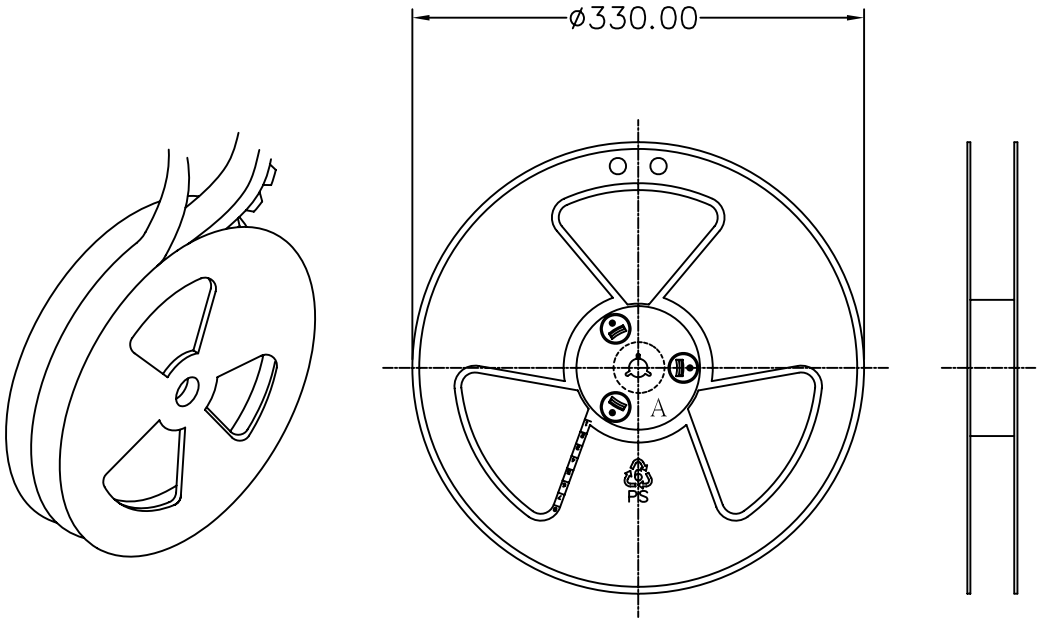
NO.	Items	Test Conditions	Evaluation Criteria
6.7	Reflow		a. No abnormality should be found after the test b. Good soldering to meet soldering requirements

Notes :

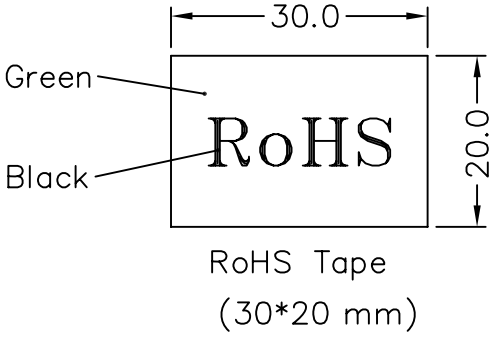
As this product is not protected from foreign material entering, please make sure that that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.

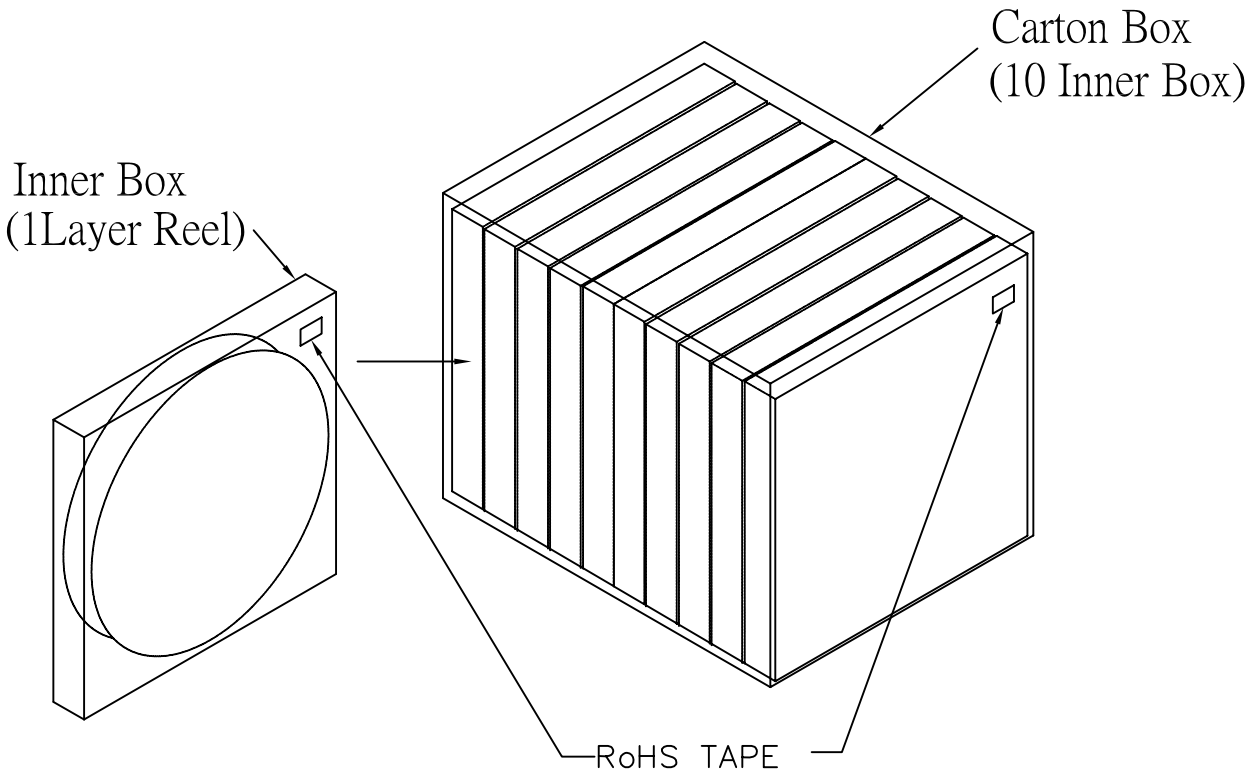
7 .Packing





1 Reel : 800PCS





Inner Box	330mmx330mmx30mm	1x800PCS=800PCS
Carton Box	350mmx350mmx370mm	10x800PCS=8,000PCS