

<b>OBO Pro.2</b>	<b>SPECIFICATIONS</b>	MODEL NO. OBO-35C2
	PART NAME Piezoelectric Buzzer	SHEET 1 OF 7

**ALTERNATION HISTORY**

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※3	APR.04'07	0608012	J	Conformity RoHS Directive ( 2002/95/EC ) Requests.	7	陳淑雅	陳建合

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
J	APR,04,2007	MIA	陳建合	陳建合

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**MODEL NO : OBO-35C2**

**Features : Built-in Circuit & Lead Wire Type.**

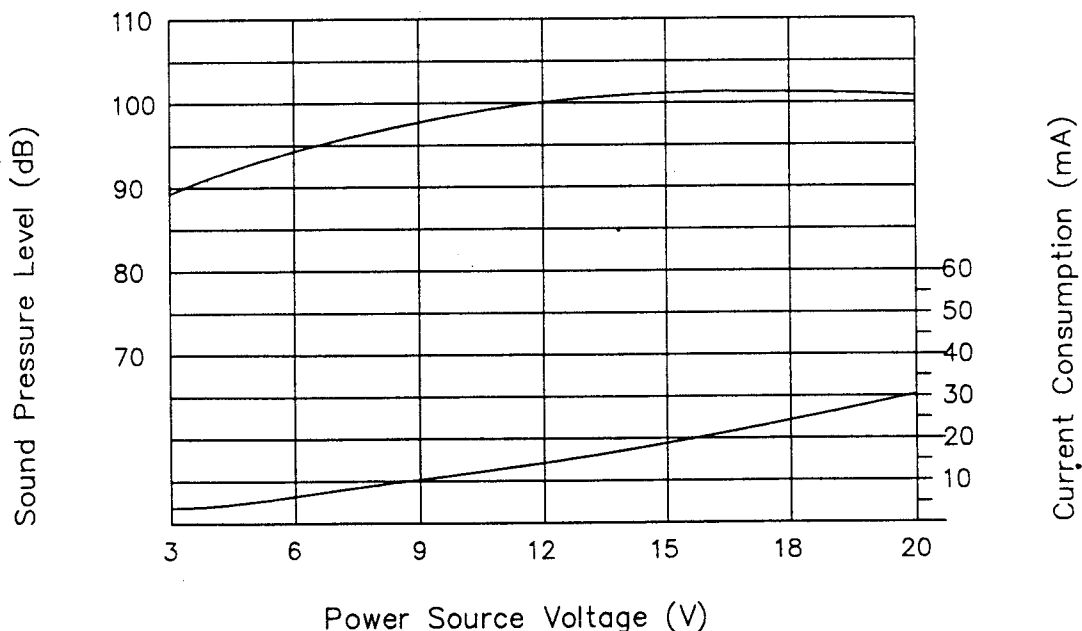
**Conformity RoHS Directive ( 2002/95/EC ) Requests. ※3**

**1. General Requirements**

Items	Spec.
Sound Pressure Level	97dB min./30cm/DC9V
Oscillating Frequency	2.8 ± 0.5KHz
Current Consumption	12mA max./DC9V
Tone	Continuous Tone
Operating Voltage	DC 3 to 20V
Case Material	PBT
Operating Temp. Range	-20°C to +70°C
Storage Temp. Range	-40°C to +85°C
Weight	13.0 gms
Low Tension Test	DC/2.0V
Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Fig.1:

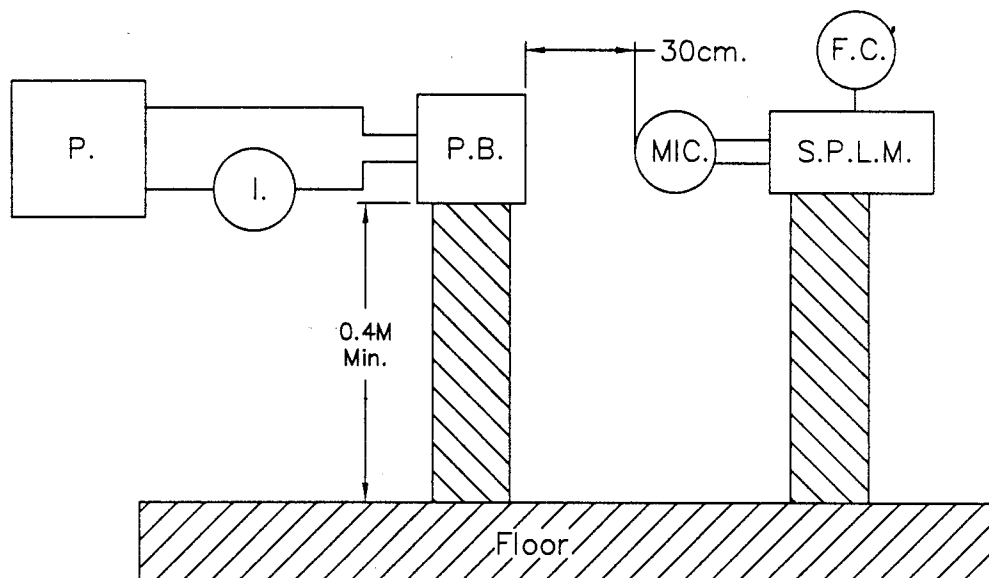
Measurement Distance : 30cm./Sound Level Meter By IEC651 TYPE2  
Current Consumption By GDM-8145/DC Power Supply By GPC-3030D



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**2. Test Method :**

2.1 Standard Test Diagram



- P.: DC Power Supply GPC-3030D or Equivalent
- S.P.L.M: Sound Precision Level Meter IEC651 TYPE2 or Equivalent
- I.: Multimeter GDM-8145 or Equivalent
- F.C: Function Generator GFG-8016G or Equivalent
- P.B: Piezoelectric Buzzer

2.2 Standard Test Condition

Part shall be measured under a condition  
 (Temperature : +5 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.

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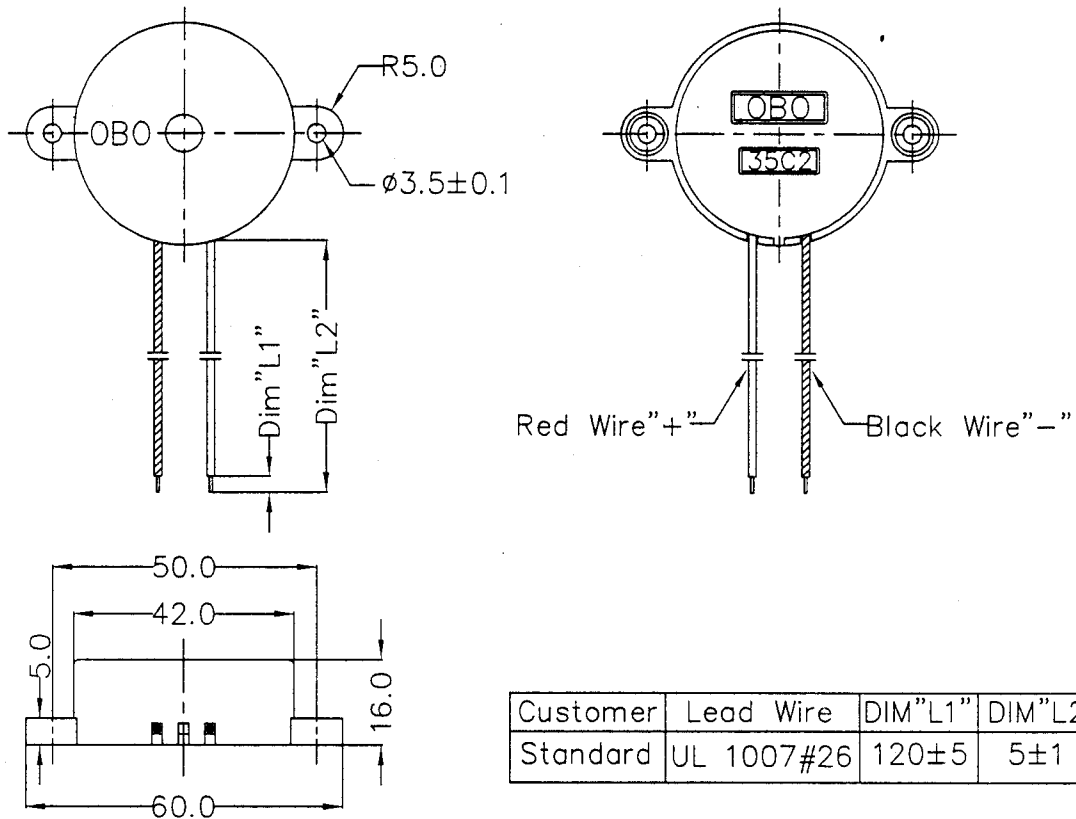
SHEET  
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**3. Mechanical Layout and Dimensions :**

3.1 Dimensions

Unit: mm

Tolerance: ±0.5



3.2 Environment-related substances to be controlled ※3

◎ 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 :** ※3

4.1 Hand Soldering

Iron Tip Temperature	Soldering time
+ 380°C Max.	Duration 3 seconds Max.

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**5. Reliability Test Conditions :**

5.1 Mechanical Sequency

	Test Items	Test Conditions	Performance Requirements
a	Vibration	10 - 55 -10Hz, Sinewave sweep 15 minutes. X,Y,Z 3 direction 2 hours each, Total 6 hours	The measured values shall meet Remarks 1,2
b	Free Drop Test	Free fall from a hight of 100 cm. Onto the 10 m/m thick hardwood board, 3 times in 6 surface.	
c	Pull Strength Test	The sample assembly shall suffer from a pull strength, continuous applied between the connector and the sample till the disconnection.	shali meet Min. 1.0Kgs

5.2 Environmental Sequence

	Test Items	Test Conditions	Performance Requirements
a	Humidity Test	+70±2°C, 90 ~ 95%RH, 96 hrs.	The measured values shall meet Remarks 1,2
b	High Temp. Sotorage	+85±2°C, 96 hrs.	
c	Low Temp. Sotorage	-40±2°C, 96 hrs.	
d	Thermal Shock	-40±2°C(30min.) → +85±2°C(30min.) 50 cycle. Transfer Time : 10 minutes	


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5.3 Operating Life Sequence

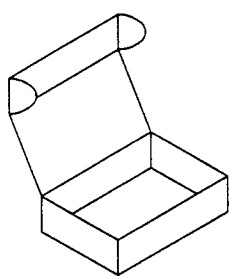
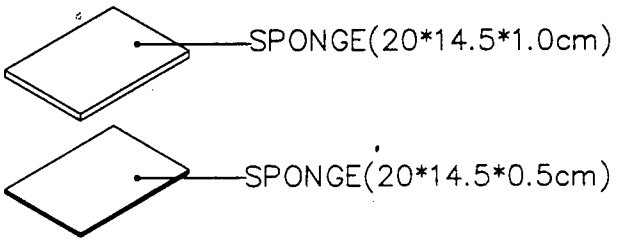
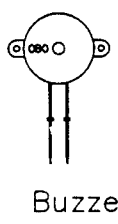
	Test Items	Test Conditions	Performance Requirements
a	Ordinary Temp. Operating Test	Continuous sound generation for 96 hrs. at DC 9V and +25±10°C	The measured values shall meet Remarks 1,2
b	High Temperature Operating Test	Continuous sound generation for 96 hrs. at DC 9V and +70±2°C	
c	Low Temperature Operating Test	Continuous sound generation for 96 hrs. at DC 9V and -20±2°C	

Remarks :

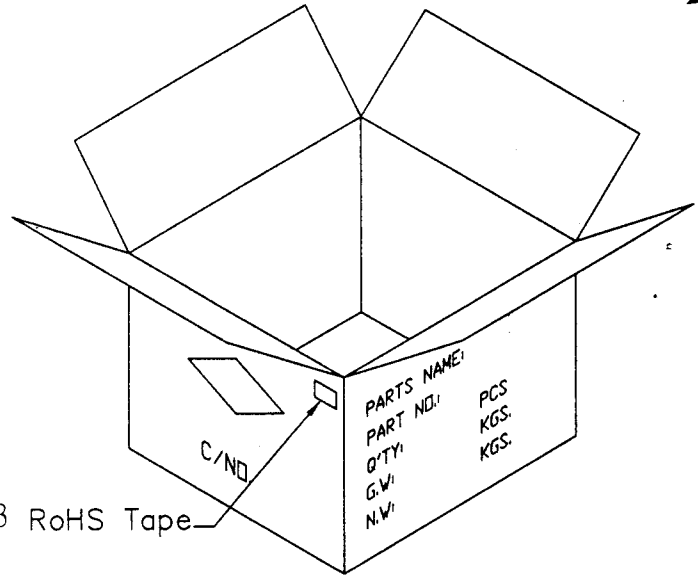
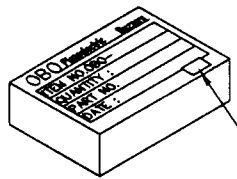
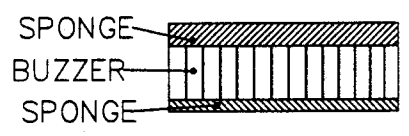
- 1.Sounder shall be measured after being placed in natural condition for 4 hours.
- 2.After the test the part shall meet specifications without any degradation in appearance and performance except SPL: Initial±10dB and Capacitance: Initial±10%

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6. Package :



40pcs./Inside Box  
21.8\*15.2\*6.1cm



20 Box(800pcs.)/Carton  
1.74寸 40.0\*38.2\*33.0cm

