

<b>OBO Pro.2</b>	<b>SPECIFICATIONS</b>	MODEL NO. OBO-20C7
	PART NAME Piezoelectric Buzzer	SHEET 1 OF 5

**ALTERNATION HISTORY**

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	AUG,05'05	DG0508001	F	Modify Carton Height	4	Hms	徐俊達
※2	MAY,23'06	0605007	G	Conformity RoHS Directive ( 2002/95/EC ) Requests.	5	馮仁如	葉可致 <sup>02</sup>

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
G	MAY,23,2006	LULU	葉可致 <sup>02</sup>	葉可致 <sup>02</sup>

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**MODEL NO : OBO-20C7**

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

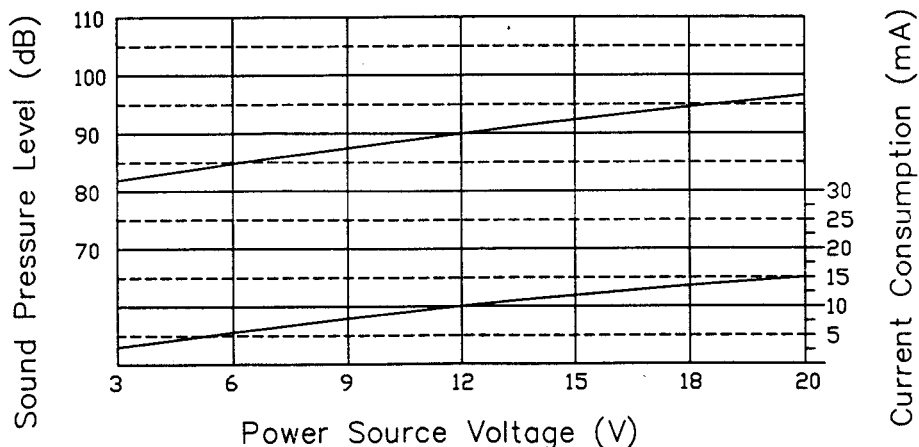
**Conformity RoHS Directive ( 2002/95/EC ) Requests. ※2**

**1、General Specifications :**

	Items	Specification
1.1	Sound Pressure Level	83dB min./30cm/DC9V
1.2	Oscillating Frequency	3.4 ± 0.5KHz
1.3	Current Consumption	8mA max./DC9V
1.4	Tone	Continuous Tone
1.5	Operating Voltage	DC 3 to 30V
1.6	Case Material	PC (UL 94V-2)
1.7	Lead Pin Material	Bronze ※2
1.8	Operating Temp. Range	-20°C to +70°C
1.9	Storage Temp. Range	-40°C to +85°C
1.10	Weight	3.5 gms
1.11	Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Fig.1:

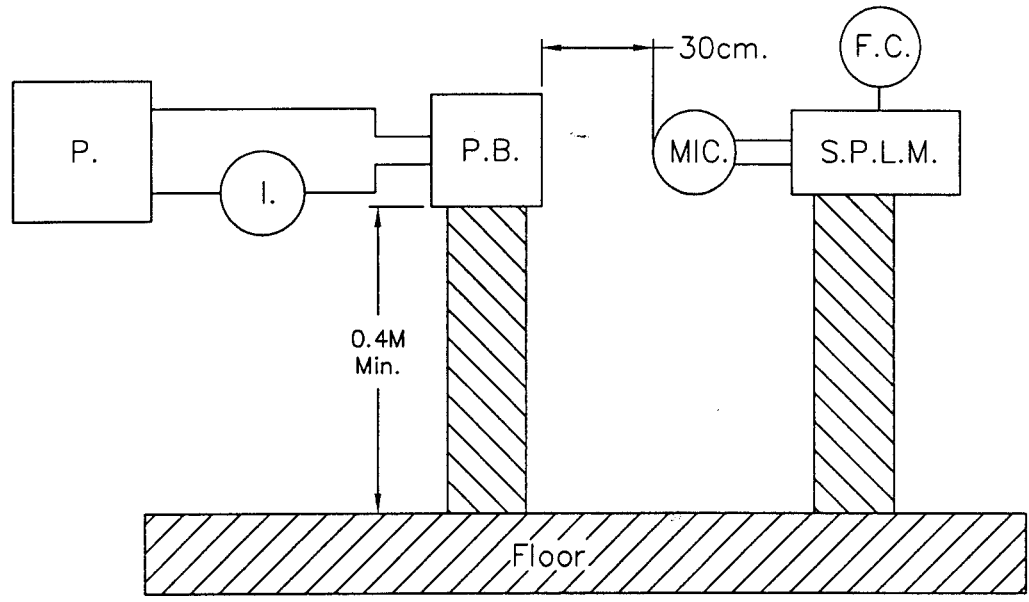
Measurement distance : 30cm. / Current consumption by GDM-8145  
Sound level meter by IEC651 TYPE2 / DC power supply by GPC-3030D



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2、Test Method : ※2

2.1 Standard Test Diagram



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

2.2 Standard Test Condition

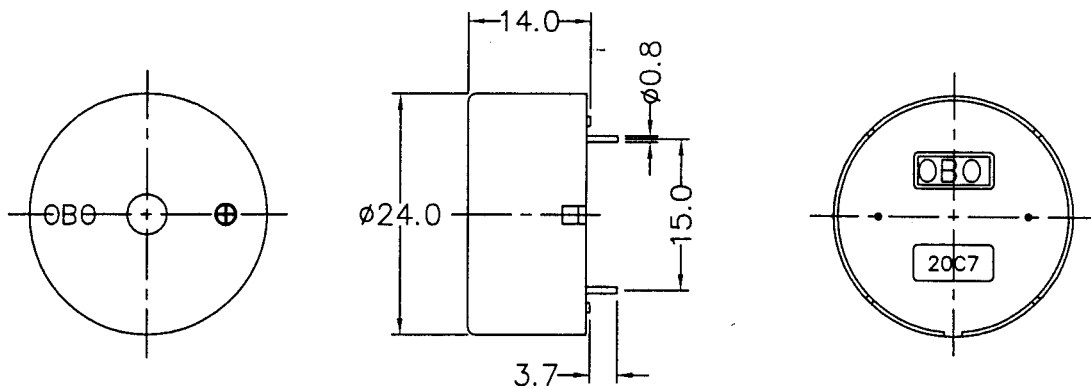
Part shall be measured under a condition  
 (Temperature : +5 to +35°C, Humidity : 45% to 85%R.H.)  
 unless the standard condition.(Temperature : +25±3°C,  
 Humidity : 60±10%R.H.) is regulated to measure.

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### 3、Mechanical Layout and Dimensions：

#### 3.1 Dimensions

Tolerance:  $\pm 0.5$  mm      Unit: mm



#### 3.2 Environment-related substances to be controlled ※2

◎ 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：※2

#### 4.1 Wave Soldering

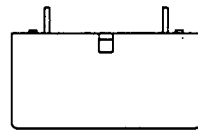
Peak temperature	Dipping time	Soldering
+ 260°C	5 seconds	1 time

#### 4.2 Hand Soldering

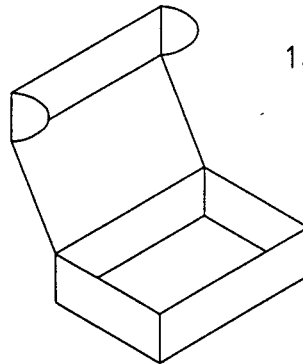
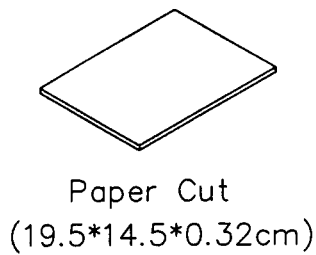
Iron Tip Temperature	Soldering time
+ 380°C Max.	Duration 3 seconds Max.

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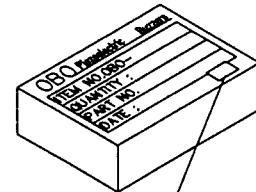
5、Packing Information :



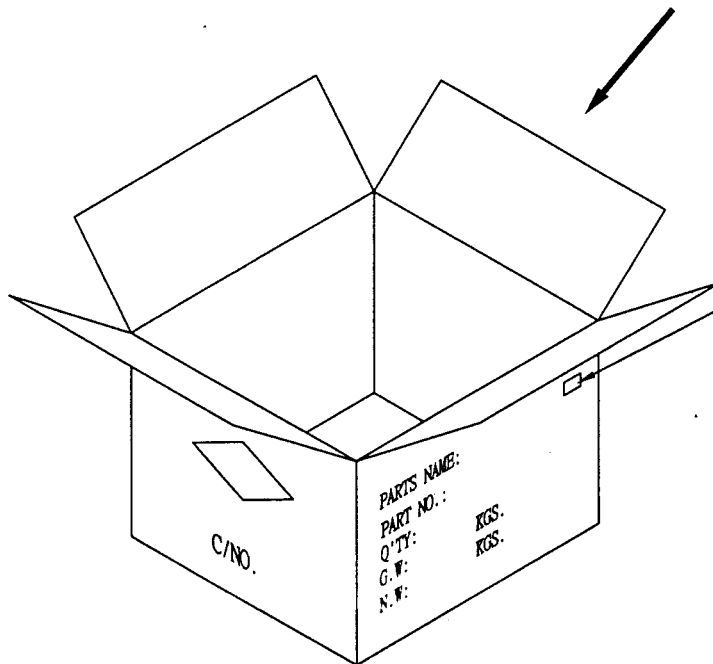
50pcs / Layer



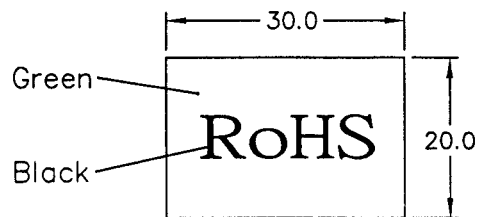
150pcs / Inside Box  
(21.8\*15.2\*6.1cm)



RoHS Tape  
※2



RoHS Tape ※2



RoHS Tape  
(30\*20 mm)

20 box(3,000pcs)/ Carton ※1※2  
Carton : 1.74才 40.0\*38.2\*33.0cm