



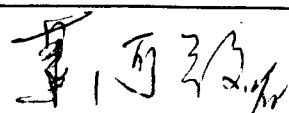


<b>OBO Pro.2</b>	<b>SPECIFICATIONS</b>	<b>MODEL NO.</b> OBO-20C3
	<b>PART NAME</b> Piezoelectric Buzzer	<b>SHEET</b> 1 OF 6

**ALTERNATION HISTORY**

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	AUG.05'05	DG0508001	F	Modify Carton	4	Hms	徐俊達
※2	DEC.09'05	0512005	G	Conformity RoHS Directive ( 2002/95/EC ) Requests.	6		

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
G	DEC,09,2005		 12/12/05	

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**MODEL NO : OBO-20C3**

**Features : Built-in Circuit and lead pin type.**

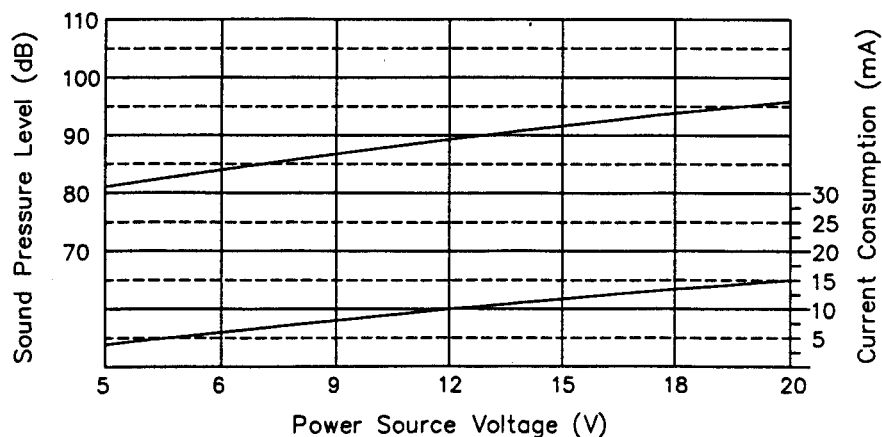
**Conformity RoHS Directive ( 2002/95/EC ) Requests. ※2**

**1 · General Specifications :**

	Items	Specification
1.1	Sound Pressure Level	83dB min./30cm/DC9V
1.2	Oscillating Frequency	3.8 ± 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
1.8	Operating Temp. Range	-20°C to +70°C
1.9	Storage Temp. Range	-40°C to +85°C
1.10	Weight	3.6 gms
1.11	Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Fig.1:

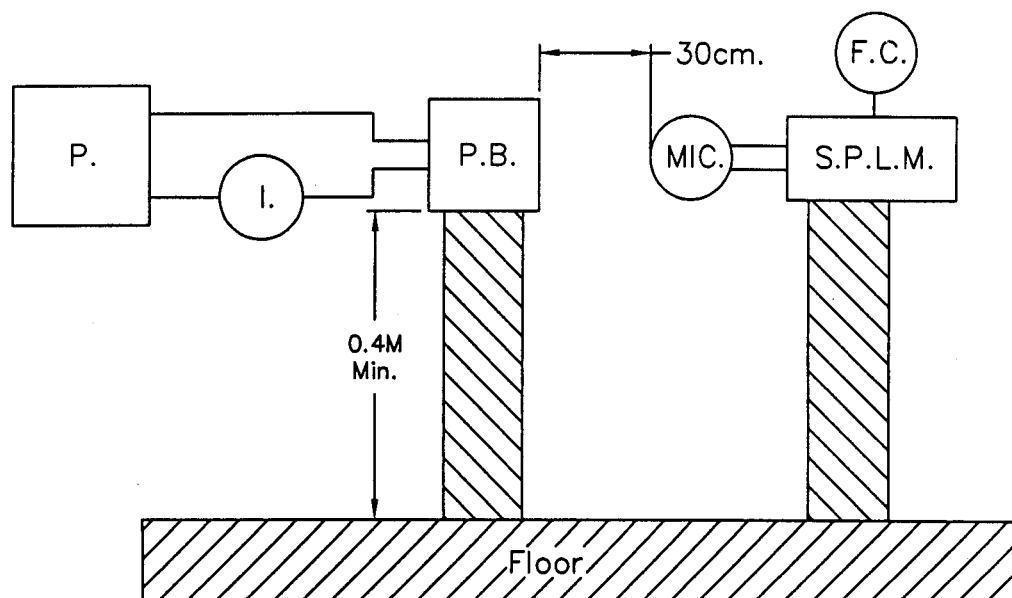
Measurement distance : 30cm. / Current consumption by GDM-8145  
Sound level meter by IEC651 TYPE2 / DC power supply by GPC-3030D



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## 2、Test Method :

### 2.1 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.

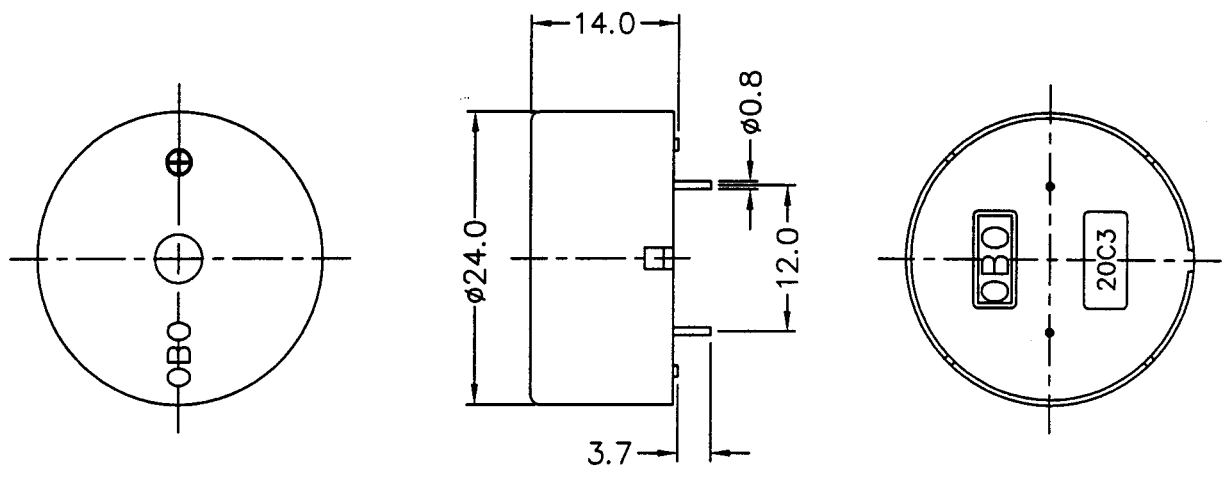
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### 3、Mechanical Layout and Dimensions：

#### 3.1 Dimensions

Tolerance:  $\pm 0.5$  mm except specified

Unit: mm



※2

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

##### 3.2.1 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).

##### 3.2.2 Ni-Alloy Plate.

RoHs Annex：

Lead in an alloying element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a copper alloy containing up to 4.0% lead by weight.

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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
+ 350°C , Duration	3 seconds Max.

4.3 Heat Resistance

Heat Resistance	Soldering time
+ 380°C , Duration	3 seconds Max.

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**5、Packing Information :**

