



SPECIFICATIONS

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
--	JUN.07,2002	---	E	---	4	林玉璇	唐瑞政
※1	AUG.05,2005	DG0508001	F	Modify Carton height	5	Hms	徐俊达

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
H	MAR.30,2007	Hms	--	徐俊达

MODEL NO : OBO-20C3

Features: Built-in Circuit

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

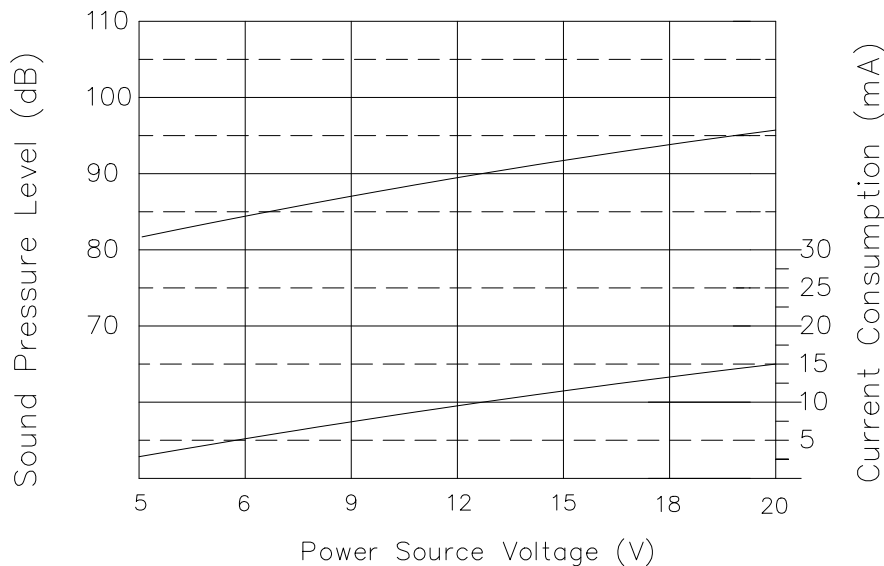
1. General Specifications:

	Items	Spec.
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	Continuons Tone
1.5	Operating Voltage	DC 3 to 30V
1.6	Case Material	PC(UL 94V-2)
1.7	Operating Temp. Range	-20°C to +70°C
1.8	Storage Temp. Range	-40°C to +85°C
1.9	Weight	3.5gram
1.10	Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Fig.1:

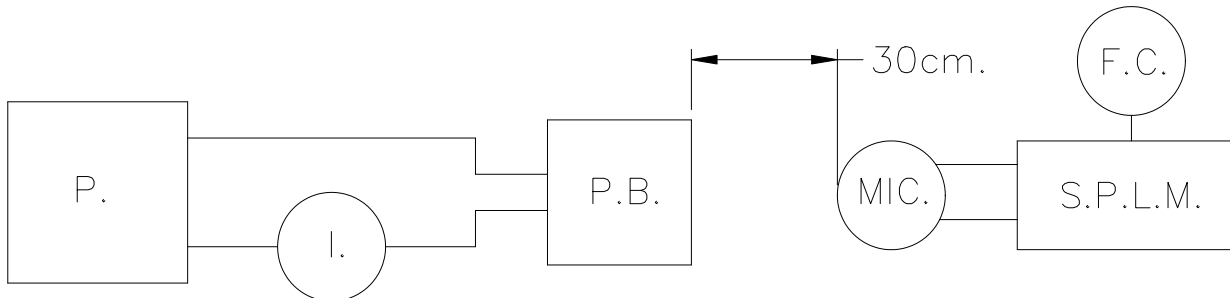
Measurement distance : 30cm. / Current consumption by GDM-8145

Sound level meter by IEC651 TYPE2 / DC power supply by GPC-3030D



**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:  $+5^{\circ}\text{C}$  to  $+35^{\circ}\text{C}$ , Humidity: 45% to 85%R.H.)

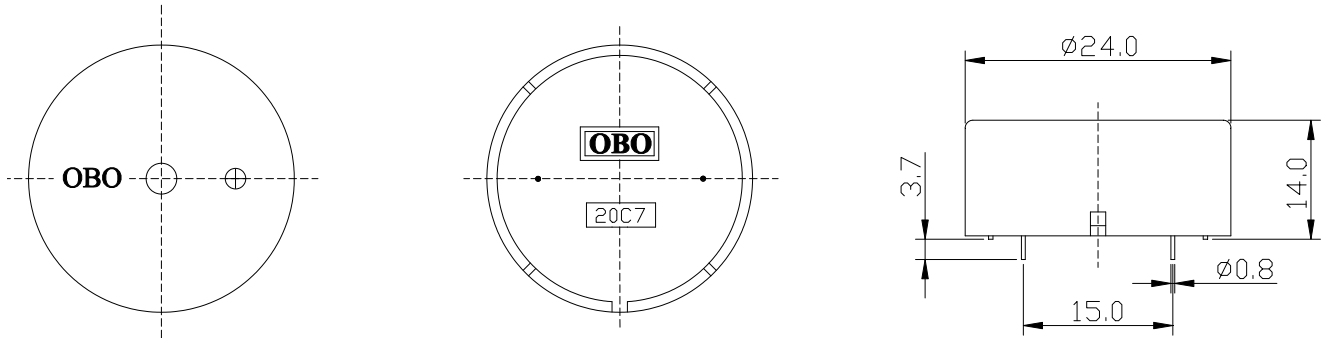
unless the standard condition (Temperature:  $+25\pm 2^{\circ}\text{C}$ ,

Humidity:  $60\pm 10\%$ R.H.) is regulated to measure.

### 3. Mechanical Layout and Dimensions:

#### 3.1 Dimendions

Tolerance:  $\pm 0.5\text{mm}$  Unit: mm



#### 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).

##### ◎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 :

### 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 / Duration	3 seconds Max.

## 5 · Packing Information :

