



MODEL NO : OBO-20C9

Features: Built-in Circuit

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

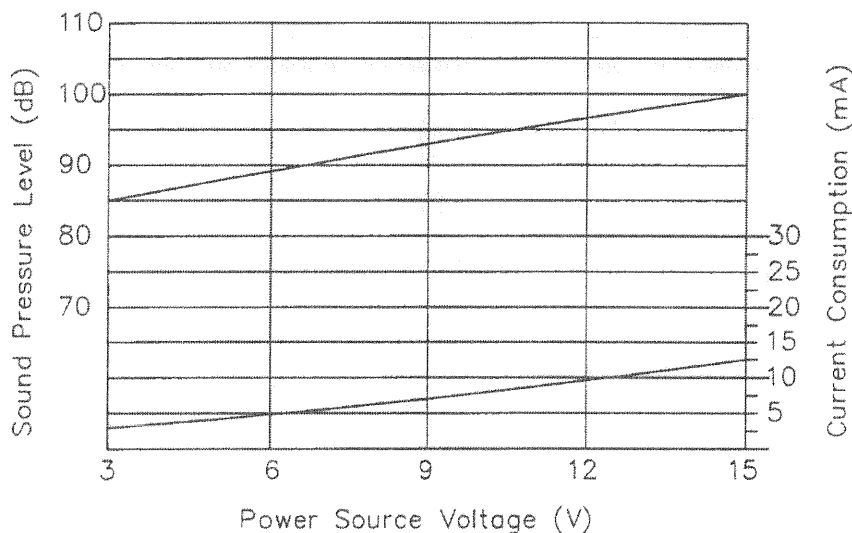
1. General Specifications:

	Items	Spec.
1.1	Sound Pressure Level	93dB min./30cm/DC9V
1.2	Oscillating Frequency	3.4±0.5KHz
1.3	Current Consumption	7mA max./DC9V
1.4	Tone	Continuons Tone
1.5	Operating Voltage	DC 3 to 15V
1.6	Case Material	PC(UL 94V-2)
1.7	Lead Pin Material	Bronze ※1
1.8	Operating Temp. Range	-20°C to +70°C
1.9	Storage Temp. Range	-40°C to +85°C
1.10	Weight	4.2gram
1.11	Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Fig.1:

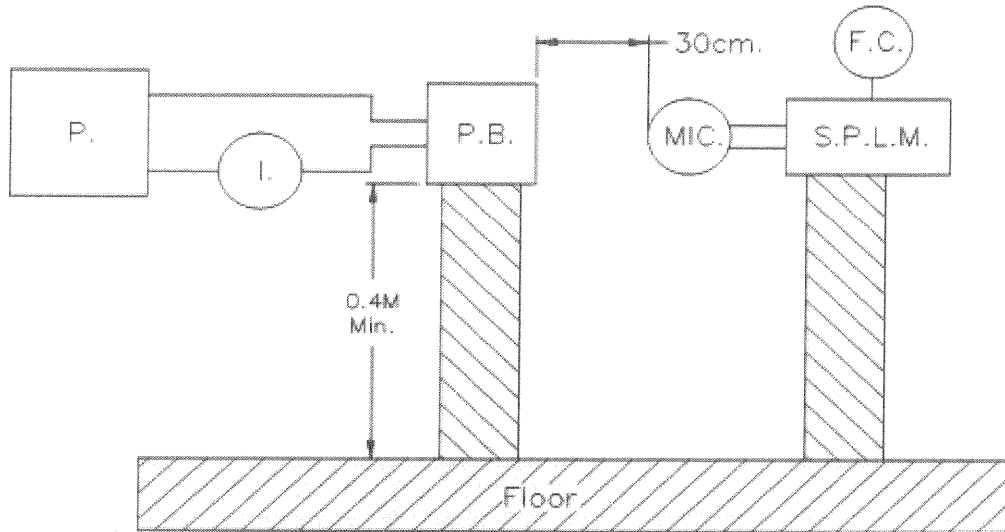
Measurement distance : 30cm. / Current consumption by GDM-8145 ※2

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

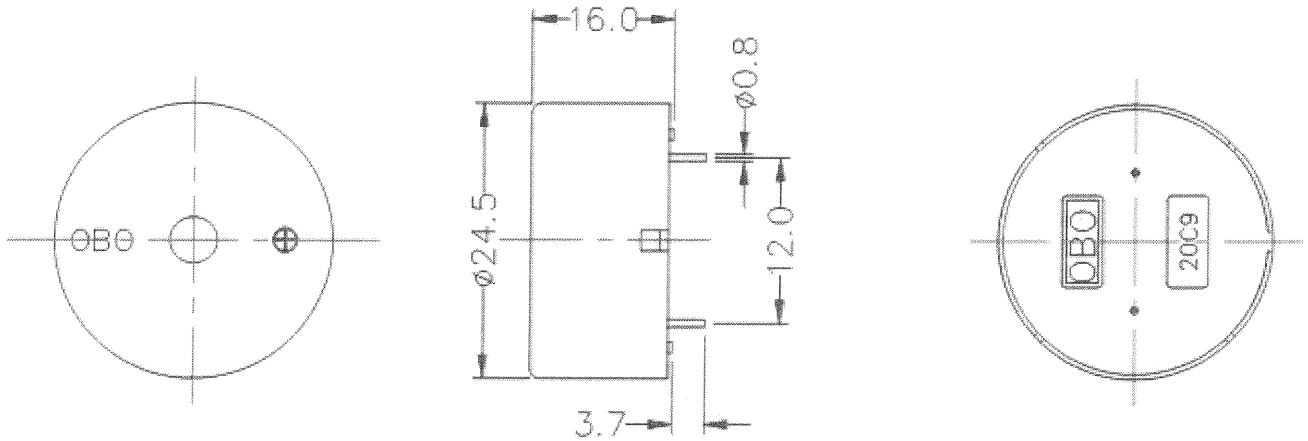
## 2.2 Standard Test Condition

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.

### 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 :

