



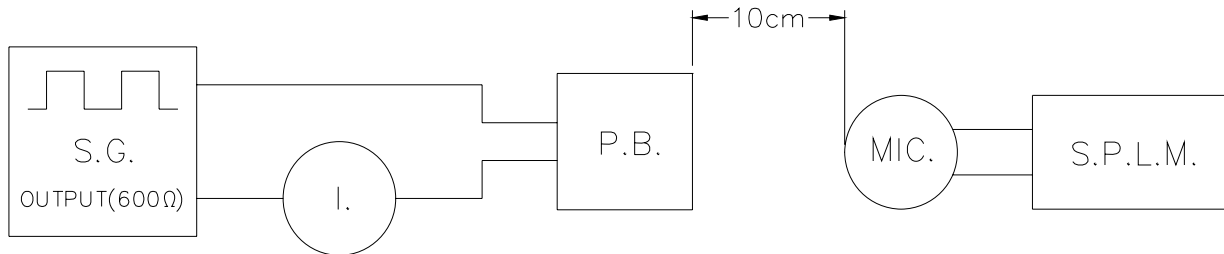
**MODEL NO : OBO-10250**

Features : External drive

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

**1. General Specifications:**

Items	Spec.
Sound Pressure Level	70dB min. at 5.0KHz/9Vp-p Square wave/10cm
Capacitance	12,000pF $\pm$ 30% at 120Hz
Current Consumption	4mA max. at 5.0KHz/9Vp-p Square Wave
Allowable Input Voltage	15Vp-p max.
Case Material	ABS
Operating Temp. Range	-20°C to +60°C
Storage Temp. Range	-30°C to +70°C
Weight	0.3gms

**2. Measuring Method:****2.1 S.P.L Measuring Circuit**

S.G. : GAG-808G Audio Generator or Equivalent

S.P.L.M. : Sound Pressure Level Meter IEC651 TYPE2

I. : GDM-8145 MultiMate or Equivalent

P.B. : Piezoelectric Buzzer

**Note: please pay attention never to be applied DC voltage to piezo sounder.****2.2 Measuring condition**

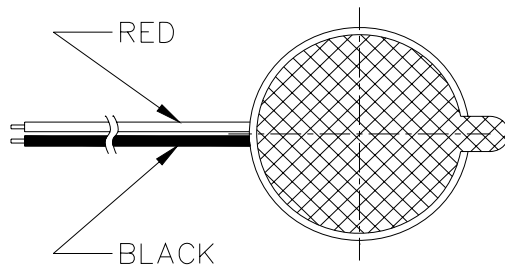
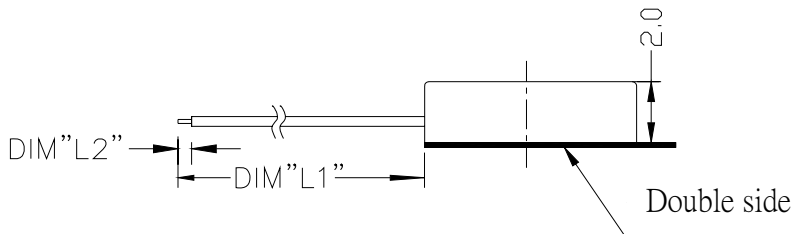
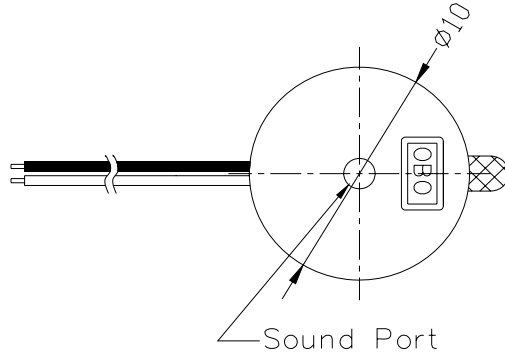
Part shall be measured under a condition(Temperature: +5°C to +35°C, Humidity: 45% to 85%R.H.)

unless the standard condition (Temperature: +25 $\pm$ 3°C, Humidity: 60 $\pm$ 10%R.H.) is regulated to measure.

**3. Mechanical Layout and Dimensions:**

**3.1 Dimensions**

Tolerance:  $\pm 0.3$  Unit: mm



Customer	Lead Wire	DIM"L1"	DIM"L2"
Standard	UL1571#32	26 $\pm$ 3	1.5 $\pm$ 0.5

**3.2. Environment-related substances to be controlled.**

© Piezoelectric Ceramic Disc.

Rosh 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:**

**4.1 Hand Soldering**

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



# SPECIFICATIONS

MODEL NO  
OBO-10250

PART NAME  
Piezoelectric Buzzer

SHEET  
4 OF 5

## 5. Reliability Test Conditions :

### 5.1 Mechanical Sequencey

	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, 9 times, any directions	
c	Terminal Strength Pushing	The force 10 seconds of 0.5Kg is applied to each terminal in axial direction.	No visible damage and cutting off.

### 5.2 Environmental Sequence

	Test Items	Test Conditions	Performance Requirements
a	Humidity Test	+60±2°C, 90 ~ 95%RH, 96 hrs.	The measured values shall meet Remarks 1,2
b	High Temp. Sotorage	+70±2°C, 96 hrs.	
c	Low Temp. Sotorage	-30±2°C, 96 hrs.	
d	Thermal Shock	-30±2°C(30min.) → +70±2°C(30min.) 50 cycle. Transfer Time : 10 minutes	

### 5.3 Operating Life Sequence

	Test Items	Test Conditions	Performance Requirements
a	Ordinary Temp. Operating Test	Continuous sound generation for 96 hrs. at 5.0KHz/9Vp-p and +25±10°C	The measured values shall meet Remarks 1,2
b	High Temperature Operating Test	Continuous sound generation for 96 hrs. at 5.0KHz/9Vp-p and +60±2°C	
c	Low Temperature Operating Test	Continuous sound generation for 96 hrs. at 5.0KHz/9Vp-p 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±20%

### 6. Packing Information :

