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	SPECIFICATIONS	MODEL NO OBO-25220
	PART NAME Piezoelectric Buzzer	SHEET 2 OF 5

## MODEL NO : OBO-25220

Features : External drive.

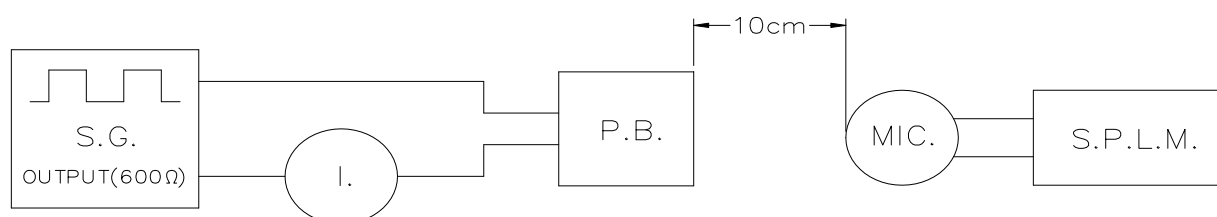
Conformity RoHS Directive(2002/95/EC) Requests.

### 1. General Specifications:

	Items	Spec.
1.1	Sound Pressure Level	80dB Min. at 2.0KHz/9.0Vp-p Square Wave/10cm.
		70dB min. at 2.0KHz/1.0Vrms Sine Wave/10cm
1.2	Capacitance	25,000pF±30% at 120Hz
1.3	Current Consumption	3mA Max. at 2.0KHz/9.0Vp-p Square Wave
1.4	Operating Voltage	30Vp-p Max.
1.5	Case Material	PBT
1.6	Lead Pin Material	Phospor Bronze
1.7	Operating Temp. Range	-20℃ to +70℃
1.8	Storage Temp. Range	-40℃ to +85℃
1.9	Weight	2.1gms

### 2. Test Method :

#### 2.1 Standard Test Diagram



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

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

I. : GDM-8145 Multimeter 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℃ to +35℃, Humidity: 45% to 85%R.H.)

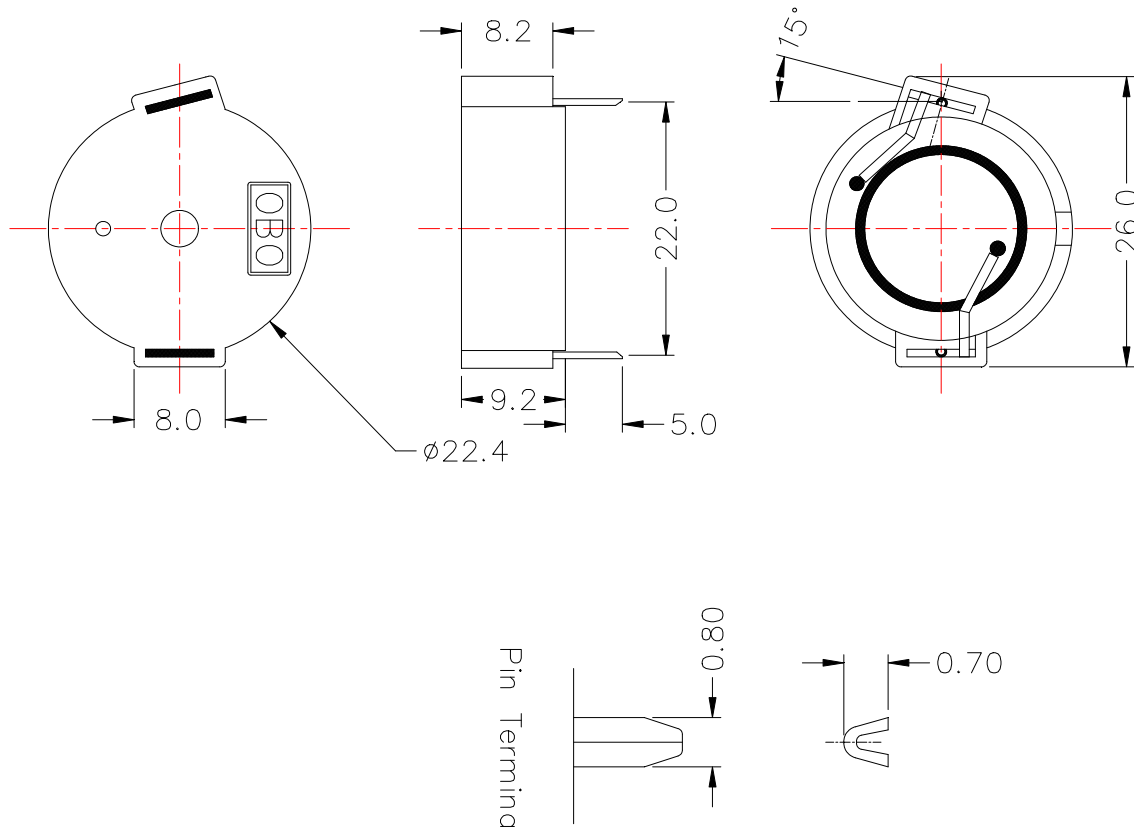
unless the standard condition (Temperature: +25±3℃,

Humidity: 60±10%R.H.) is regulated to measure.

## 3. Mechanical Layout and Dimensions:

### 3.1 Dimendions

Tolerance:  $\pm 0.3\text{mm}$  Unit: mm



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

© Piezoelectric Ceramic Disc.

RoHs Annex:

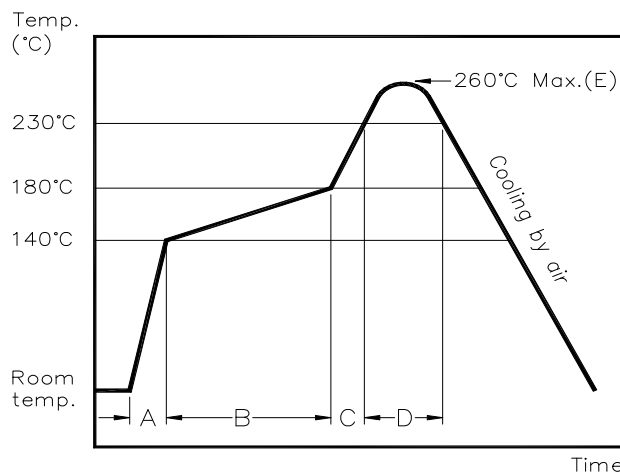
Application of lead, mercury, cadmium and hexavalent chromium, which are exempted from the requirement of article 4(1).

\* Lead in electronic ceramic parts.(e.g. piezoelectronic devices).

## 4. Soldering Condition :

### 4.1 Reflow Soldering

Recommendable reflow Soldering condition is flows.



NO.	Items	Condition	Unit
A	Temp. rise gradient	1 ~ 4	°C/sec
B	Heating time	50~150	sec
	Heating temperature	140~180	°C
C	Temp. rise gradient	1 ~ 4	°C/sec
D	Time over 230°C	48 Max.	sec
E	Peak temperature	260°C Max.	°C
	Peak-temp. hold time	Momentary	sec
Soldering		2	times

Note: It's requested that second reflows soldering should be executed after heat of product goes down to normal temperature

### 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 :

