



SPECIFICATIONS

MODEL NO
OBO-16240ST

PART NAME
Piezoelectric Buzzer

SHEET
1 OF 5

ALTERNATION HISTORY

| Marking | Date | ECN NO. | REV. | Description | Page | PREPARE BY | APPROVE BY |
|---------|-------------|---------|------|-----------------|------|------------|------------|
| -- | MAR.10,2010 | --- | A | New Document | 5 | 李小蓮 | 謝明福 |
| ※1 | NOV.10,2011 | ***** | B | Chang Materials | 5 | 李小蓮 | 謝明福 |
| | | | | | | | |

| REV. | DATE | PREPARED BY | CHECKED BY | APPROVED BY |
|------|-------------|-------------|------------|-------------|
| B | NOV.10,2011 | 李小蓮 | 王志偉 | 謝明福 |

MODEL NO : OBO-16240ST

Features : External drive.

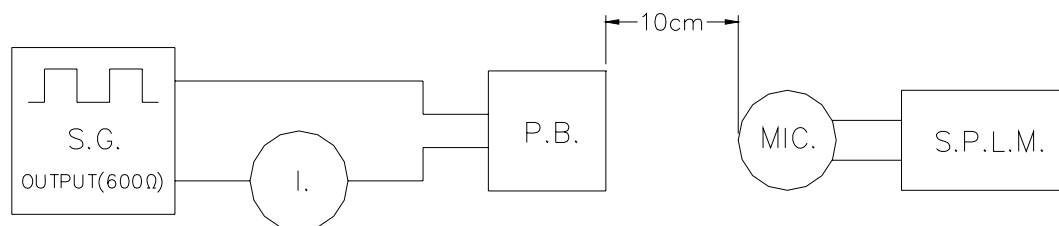
Conformity RoHS Directive(2002/95/EC) Requests.

1. General Specifications:

| | Items | Spec. |
|-----|-------------------------|---|
| 1.1 | Sound Pressure Level | 75dB Min. at4.0KHz/5.0Vp-p,Square wave/10cm |
| 1.2 | Capacitance | 16,000pF±30% at 1.0KHz |
| 1.3 | Current Consumption | 2 mA Max. at 4000Hz/5.0Vp-p |
| 1.4 | Allowable Input Voltage | 25Vp-p Max. |
| 1.5 | Case Material | LCP(White) |
| 1.6 | Lead Pin Material | Tin Plated Brass(Sn) |
| 1.7 | Operating Temp. Range | -30°C to +70°C |
| 1.8 | Storage Temp. Range | -40°C to +85°C |
| 1.9 | Weight | 1.0 gms |

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°C to +35°C, Humidity: 45% to 85% R.H.)

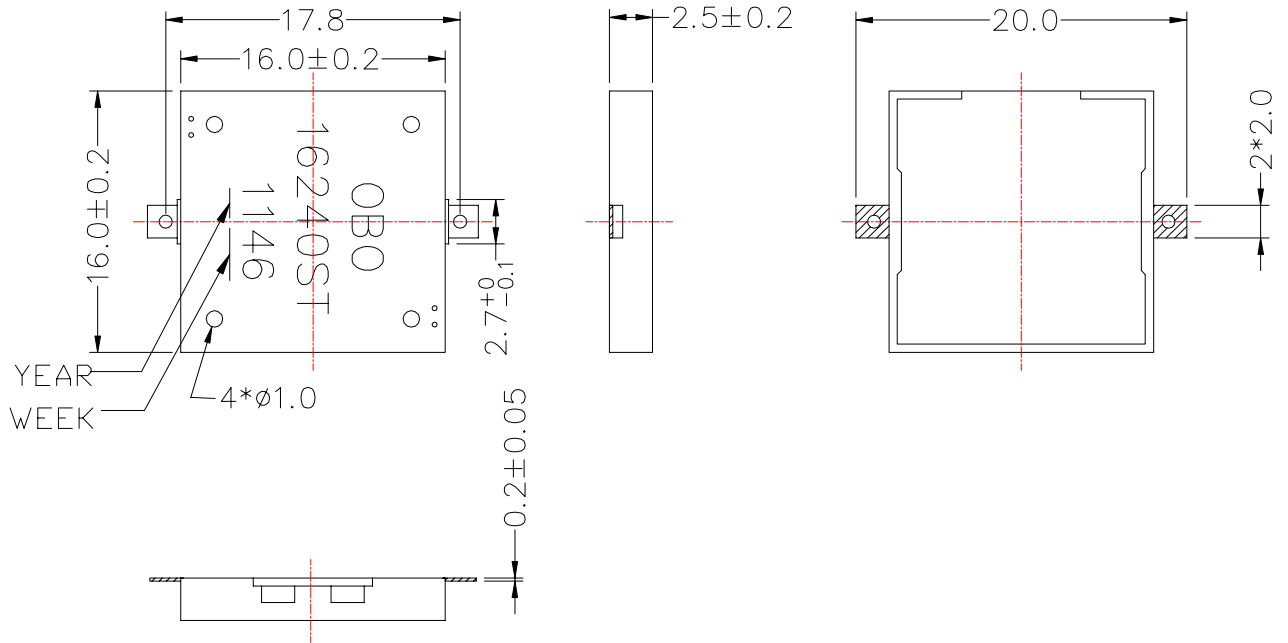
unless the standard condition (Temperature: +25±3°C,

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

3. Mechanical Layout and Dimensions:

3.1 Dimensions ※1

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



3.2. Environment-related substances to be controlled.

◎ Piezoelectric Ceramic Disc.

RoHS Annex:

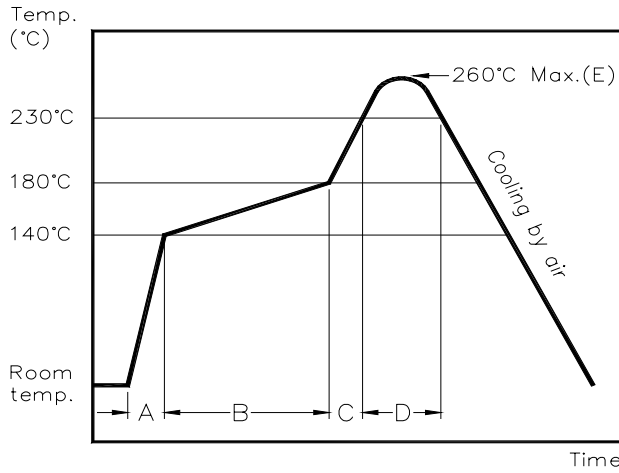
Application of lead, mercury, cadmium and hexavalent chromium, which are exempted from the requirement of article 4(1).

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

4. Soldering Condition :

4.1 Reflow Soldering

Recommendable reflow Soldering condition is flows.



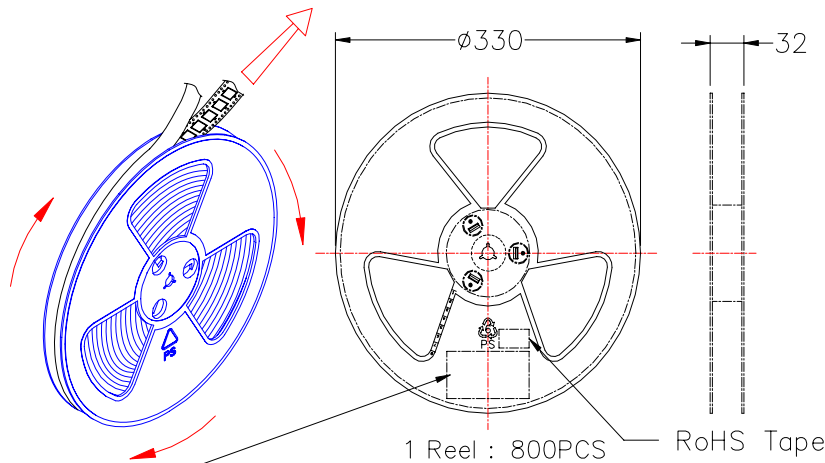
| NO. | Items | Condition | Unit |
|-----------|----------------------|------------|--------|
| A | Temp. rise gradient | 1 ~ 4 | °C/sec |
| B | Heating time | 50~150 | sec |
| | Heating temperature | 140~180 | °C |
| C | Temp. rise gradient | 1 ~ 4 | °C/sec |
| D | Time over 230°C | 48 Max. | sec |
| 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

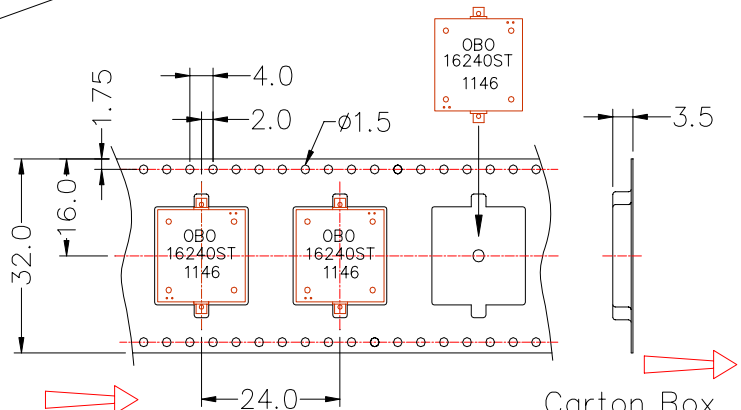
Soldering iron temperature 350°C less than 5 second.

5. Packing Information :



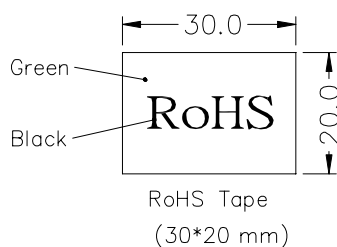
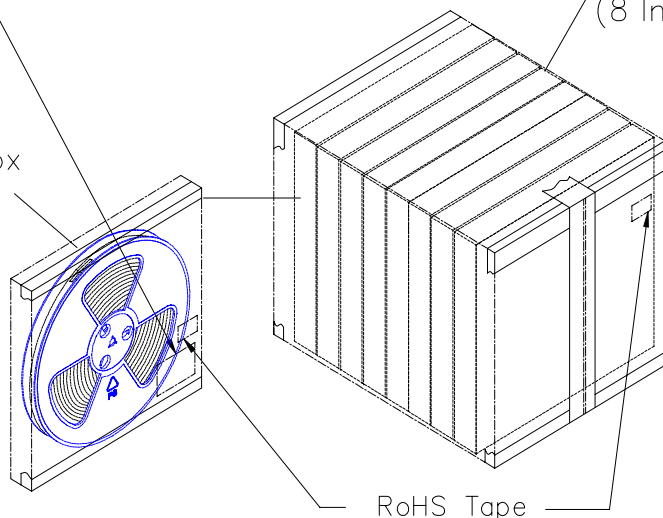
Label content

| | |
|------------------|---------|
| OBO PRO.2 INC. | |
| Model No. | 16240ST |
| Production Order | ***** |
| Lot NO. | *** |
| Q'TY | 800PCS |
| Date | ***** |



Carton Box
(8 Inner Box)

Inner Box
(1 Reel)



| | | |
|------------|---------------|------------------|
| Inner Box | 335*335*45mm | 1*800PCS=800PCS |
| Carton Box | 416*368*374mm | 8*800PCS=6400PCS |