

规格书编号

**SPEC NO :**

# 产品规格书

# SPECIFICATION

CUSTOMER 客户:

CERAMIC RESONATOR

PRODUCT 产品:

MODEL NO 型号:

ZTH 1228.8Y

MARKING 印字:

ZTH 1228.8Y

PREPARED 编制: \_\_\_\_\_

\_\_\_\_\_ CHECKED 审核:

APPROVED 批准:

D A T E 日期: 2017-6-1

客户确认 CUSTOMER RECEIVED:

审核 CHECKED	批准 APPROVED	日期 DATE

## 1 . SCOPE

This specification shall cover the characteristics of the ceramic resonator with 1228.8KHz.

2 . SPECIFICATION No. :

3 . PART No. : ZTH 1228.8Y

## 4 . ELECTRICAL SPECIFICATION

4.1 Oscillation Frequency (Fosc) :  $1228.8 \pm 6\text{KHz}$

4.2 Resonant Impedance(Ro) :  $120 \Omega$  max.

### 4.3 Temperature Characteristics

of Oscillation Frequency :  $\pm 0.3\%$  max.(-20°C to +80°C)

4.4 Rated Voltage : 50 V DC max.

4.5 Maximum Input Voltage : 15 Vp-p

4.6 Insulation Resistance :  $200\text{M} \Omega$  min.

## 5. Environmental Specification :

5.1 Lead Pull : 1KG load Terminal Direction Min.

5.2 Vibration : Resonator shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hours.

5.3 Shock : Random Drop,30cm High Concrete Floor

5.4 Solderability : Dipping Terminals Into Molten Solder at  $245 \pm 5^\circ\text{C}$  At  $3 \pm 0.5$  Sec.

### 5.5 Resistance to

Soldering Heat : Dipping Lead Terminals No Close Than 2mm  
From the Sn 260  $\pm 5^\circ\text{C}$   $3 \pm 0.5$  Sec.  
After 2H to Test

5.6 Heat Resistance : Keep In  $80 \pm 2^\circ\text{C}$  Temp 90% Humidity For 100H  
After 2H To Test.

5.7 High Temperature : After being placed in a chamber with  $80 \pm 2^\circ\text{C}$ ,for 100 hours and then being placed in roomtemperature for 2 hours, resonator shall be measured.

5.8 Low Temperature : After being placed in a chamber with  $-20 \pm 2^\circ\text{C}$ ,for 100 hours and then being placed in room temperature for 2 hours,

resonator shall be measured.

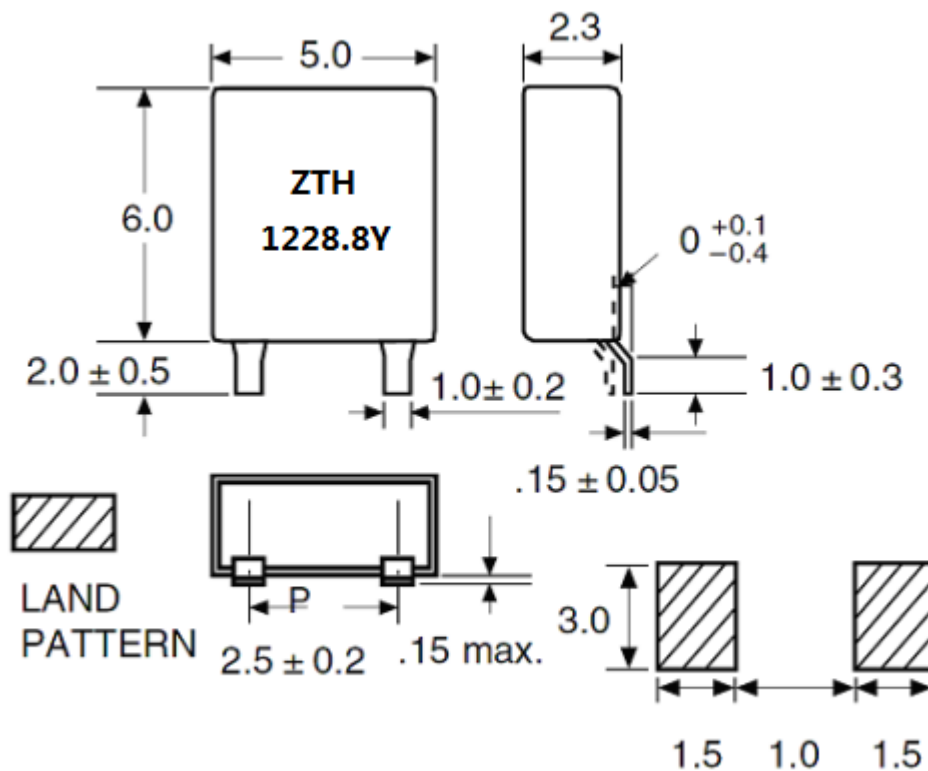
5.9 Heat Shock : After being kept at room temperature, filter shall be placed at temperature of  $-20^{\circ}\text{C}$ , for 30 minutes, then be placed at temperature.  $80^{\circ}\text{C}$ , for 30 minutes. After that returned to  $-20^{\circ}\text{C}$  again. Repeated above cycle for 5 times. After being kept in room temp. for 2 hours, resonator shall be measured.

5.10 Operation Temperature :  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

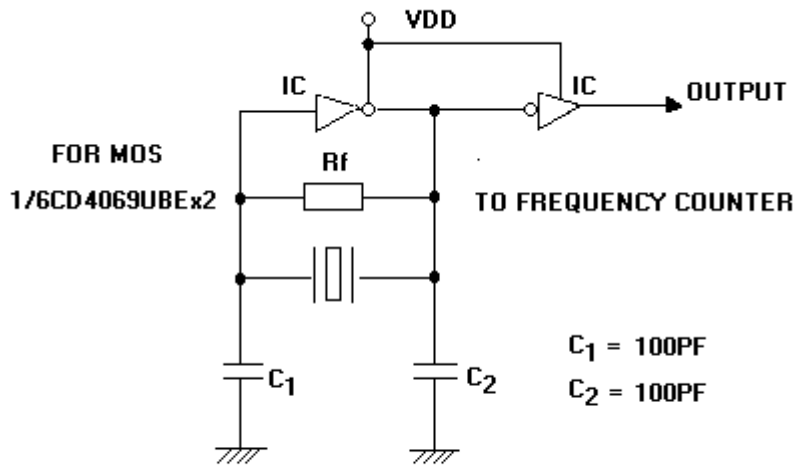
5.11 Storage Temperature :  $-25^{\circ}\text{C}$  ~  $+85^{\circ}\text{C}$

5.12 Aging Rate :  $F_{osc} \pm 0.3\%$  max.

### 6. Dimensions:(mm)



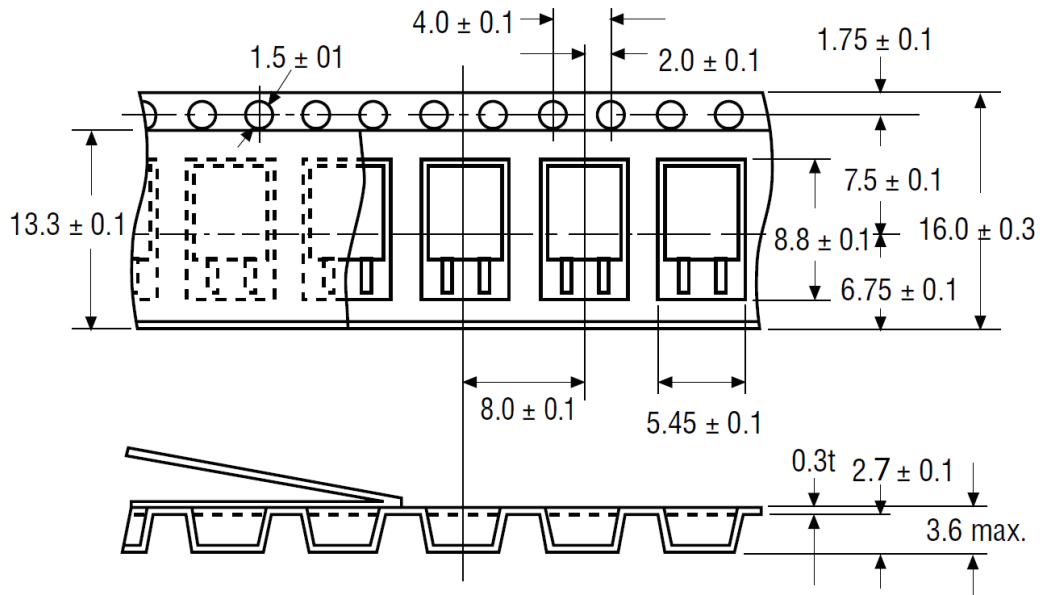
### 7. Test circuit



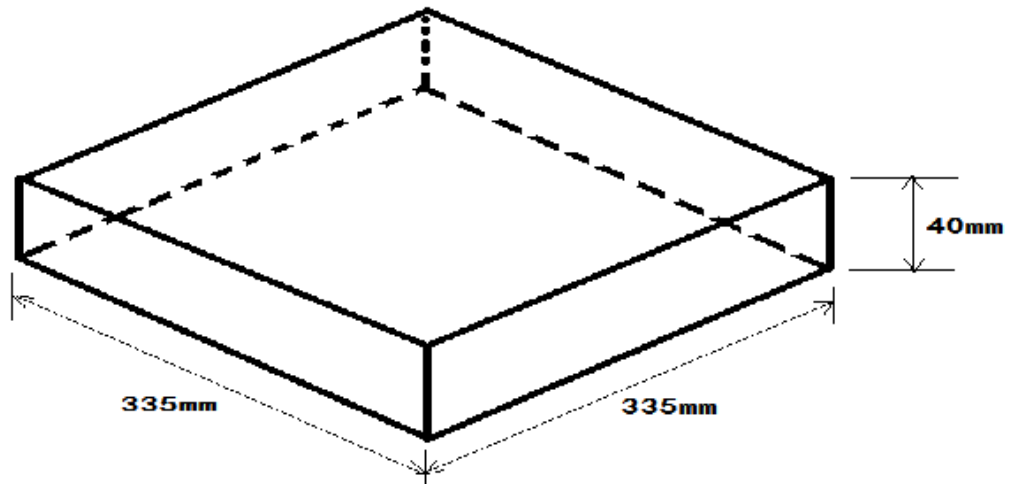
## 8 PACKAGE

To protect the products in storage and transportation, it is necessary to pack them(outer and inner package)

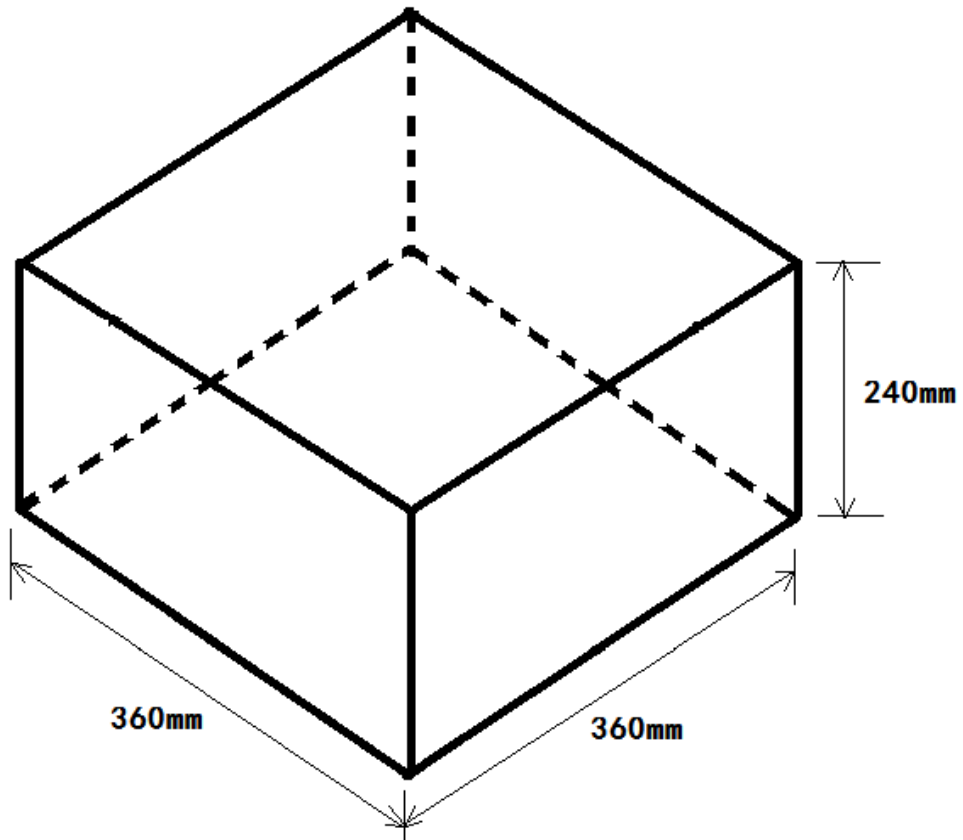
### 8.1 Plastic tape dimensions: mm



### 8.2 The carton dimensions: mm



8.3 The box dimensions: mm



8.4 Quantity of package

Per reel	2000 pieces
Per package	5 reels