

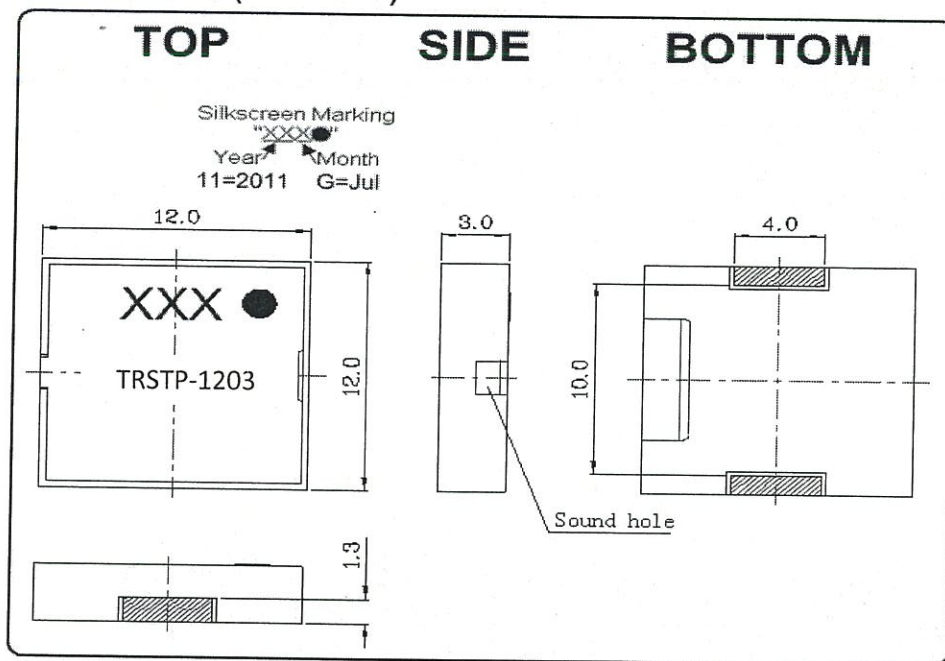
SCOPE: This specification applies SMT Piezo buzzer **TRSTP-1203**

1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	75	dB
RATED VOLTAGE	3	Vp-p
MAX OPERATING VOLTAGE	25	Vp-p
RESONANCE FREQUENCY	4,000	Hz
CAPACITANCE AT 100Hz	16,000 \pm 30%	pF
OPERATING TEMPERATURE	-20 to +70	°C
STORAGE TEMPERATURE	-30 to +80	°C
HOUSING	LCP	-
TERMINAL MATERIAL	TIN PLATED BRASS	-
WEIGHT	0.4	g

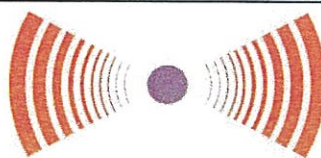
*Value applying rated voltage and resonance frequency

2. DIMENSIONS (unit in mm)



Tolerance: ± 0.5 mm except specified

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Elk Grove, IL 60007
Toll Free: 888-921-6400 FAX: 847-956-1950
www.tusainc.com info@tusainc.com

All dimensions are in MM unless otherwise specified

Drawing Number:
TRSTP-1203

SMD Piezo Buzzer
1 of 4

Date:

7/29/2011

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3. RELIABILITY TEST

Testing Criteria

Allowable variation of SPL after test: $\pm 5\text{dB}$.

1) Temperature Test

a) High Temperature

After being placed in a chamber with $+80^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.

b) Low Temperature

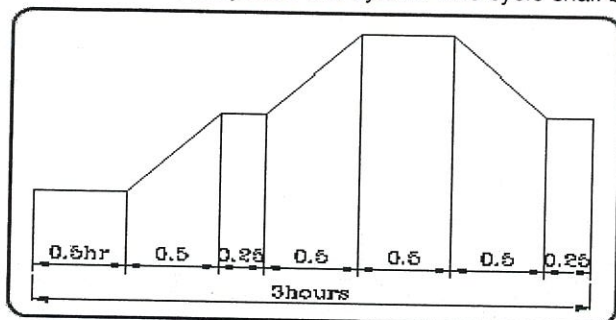
After being placed in a chamber with -30°C for 96 hours and then being placed in normal condition for 2 hours.

2) Humidity Test

After being Placed in a chamber with 90-95% R.H. at $+40 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.

3) Temperature Cycle Test

The part shall be subjected to 5 cycles. One cycle shall be consist of :



4) Drop Test

Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm .

5) Vibration Test

After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours .

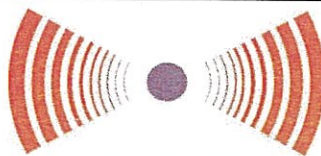
6) Solderability Test

Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^{\circ}\text{C}$ for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).

7) Terminal Strength Pulling Test

The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

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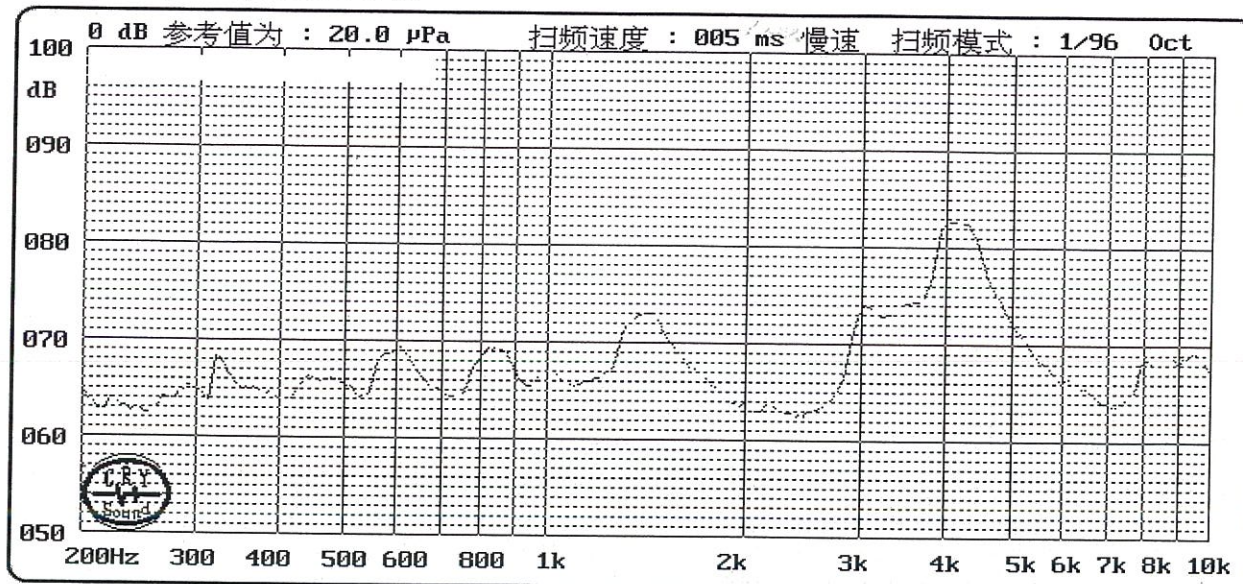
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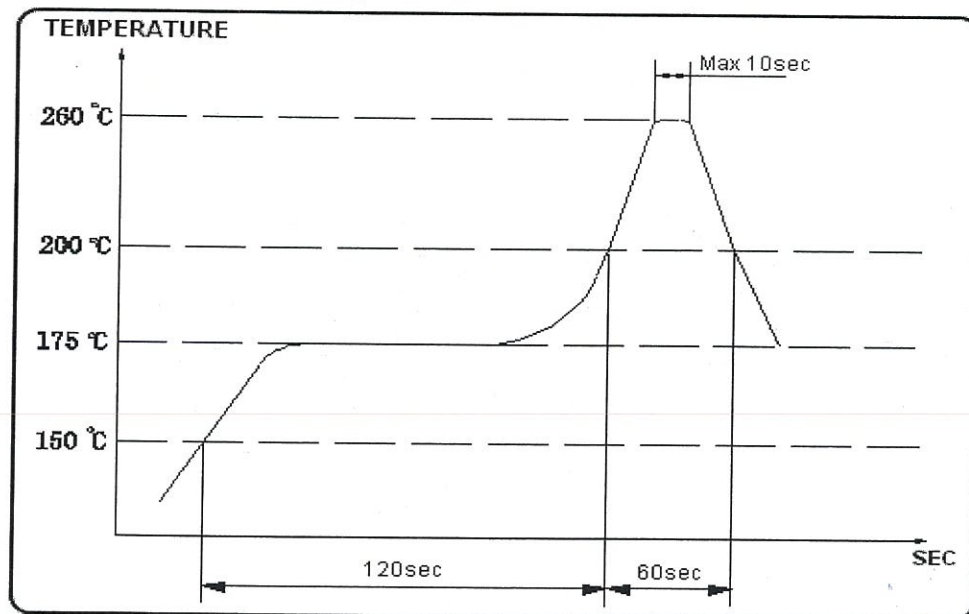
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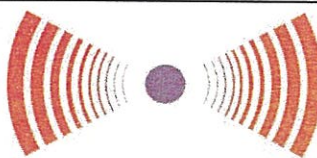
4. Frequency Response Curve



5. Recommend Reflowing Profile



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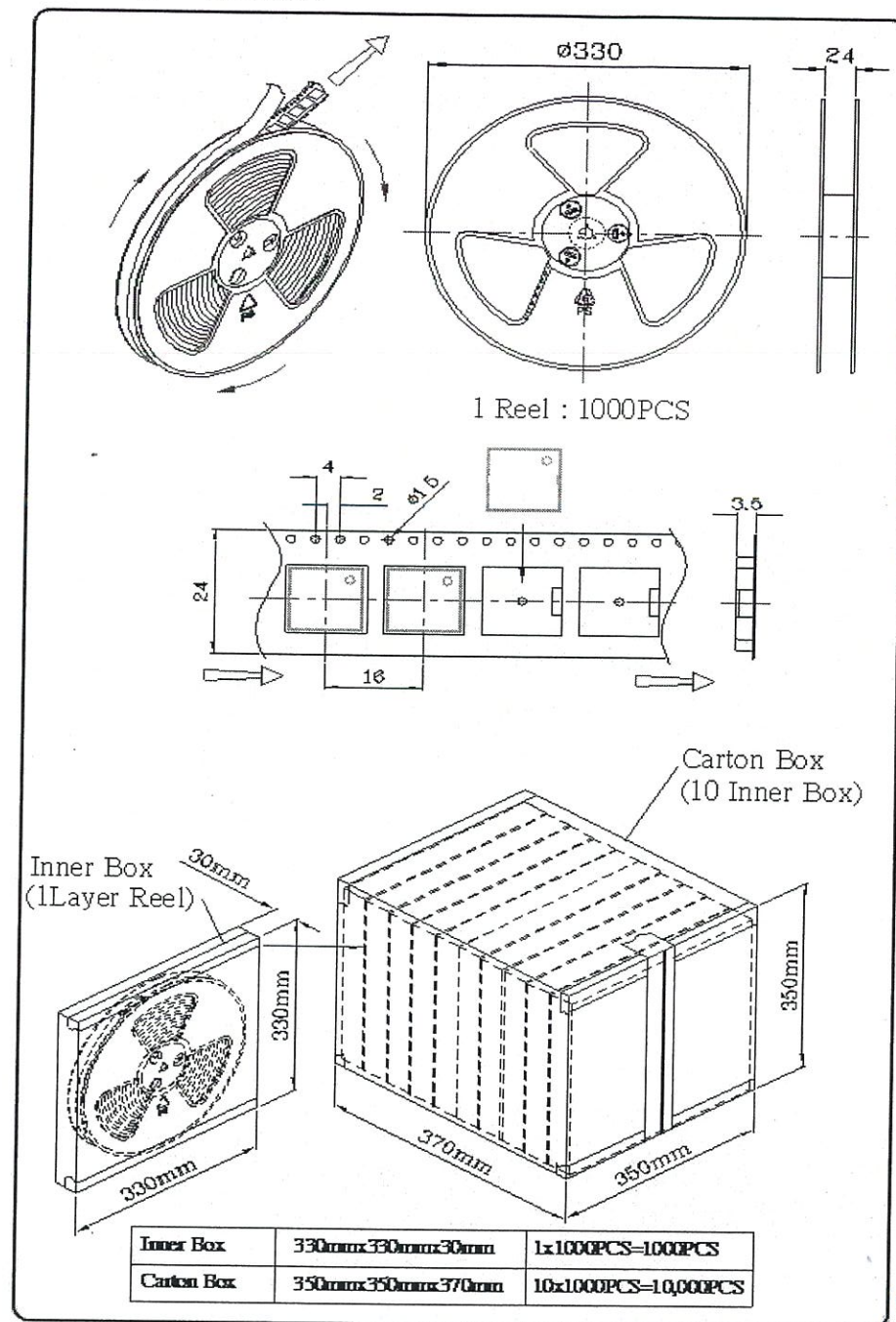
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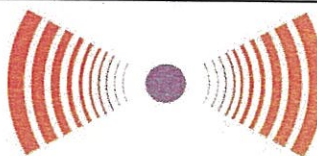
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6. Packing Information



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