SPECIFICATIONS SHEET FOR APPROVAL

EXTERNAL DRIVE PIEZO TRANSDUCER
P/N: PTS1230ALM-02

DESCRIPTION: L12mm, W12mm, H3mm, EDPT, 4000Hz, 3Vp-p, 75dB at 10cm, 16000pF, SMD, RoHS 2.0, REACH SVHC 224

VERSION: 03

DATE: 14-Sep-2022

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	29/07/2011
02	Updated the temperature rating	25/06/2013
03	Added environmental standards	14-Sep-22

APPROVED BY :

CUSTOMER NAME :
DATE :

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SPECIFICATIONS SHEET

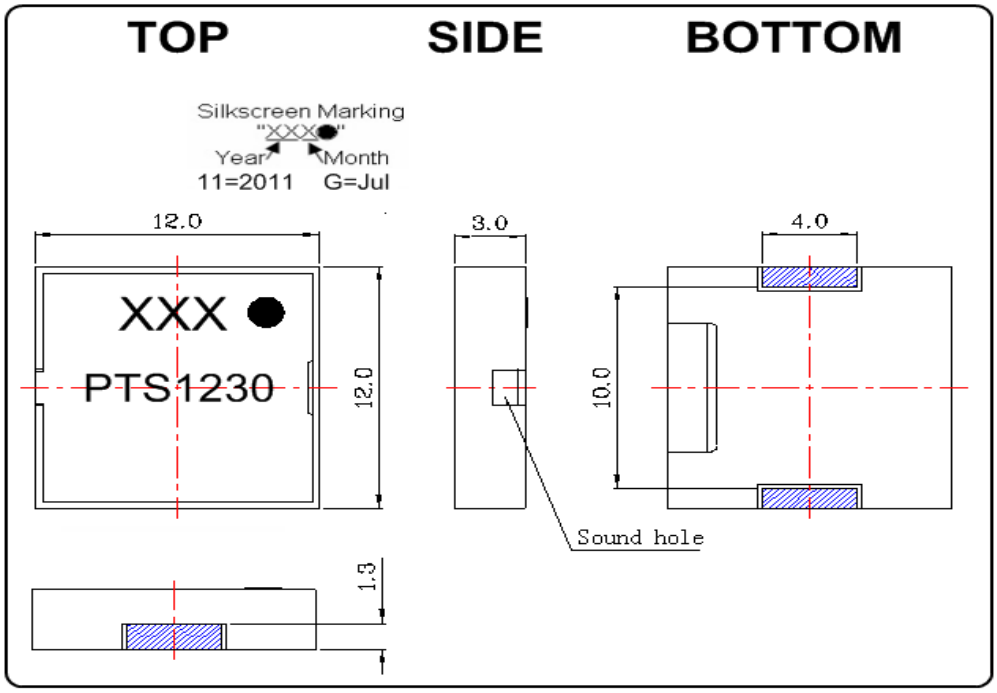
EXTERNAL DRIVE PIEZO TRANSDUCER
P/N: PTS1230ALM-02

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 ± 30%	pF
OPERATING TEMPERATURE	-40 to +85	℃
STORAGE TEMPERATURE	-40 to +85	℃
HOUSING	LCP	-
ENVIRONMENTAL STANDARDS	RoHS 2.0, REACH SVHC 224	-
TERMINAL MATERIAL	TIN PLATED BRASS	-
WEIGHT	0.4	g

*Value applying rated voltage and resonance frequency

2. DIMENSIONS (unit in mm)



Tolerance: ±0.5mm except specified

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All specifications subject to change without notice

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3. RELIABILITY TEST

Testing Criteria

Allowable variation of SPL after test: ±5dB.

1) Temperature Test

a) High Temperature

After being placed in a chamber with +80℃ for 96 hours and then being placed in normal condition for 2 hours.

b) Low Temperature

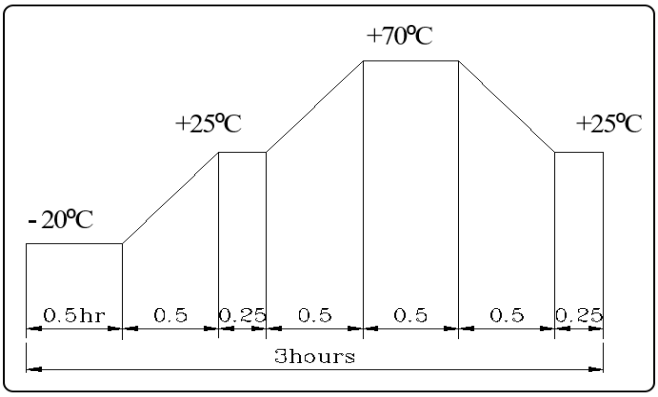
After being placed in a chamber with -30℃ for 96 hours and then being placed in normal condition for 2 hours.

2) Humidity Test

After being Placed in a chamber with 90-95% R.H. at +40± 2℃C for 96hours 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±5ºC 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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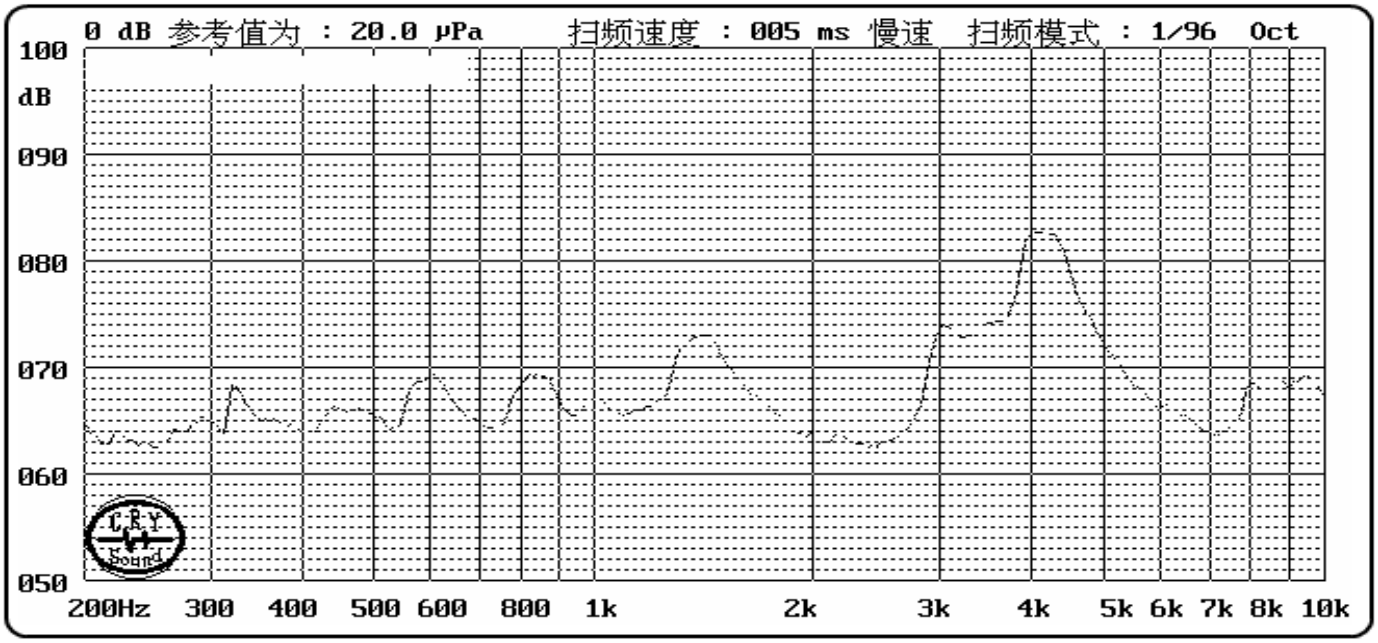
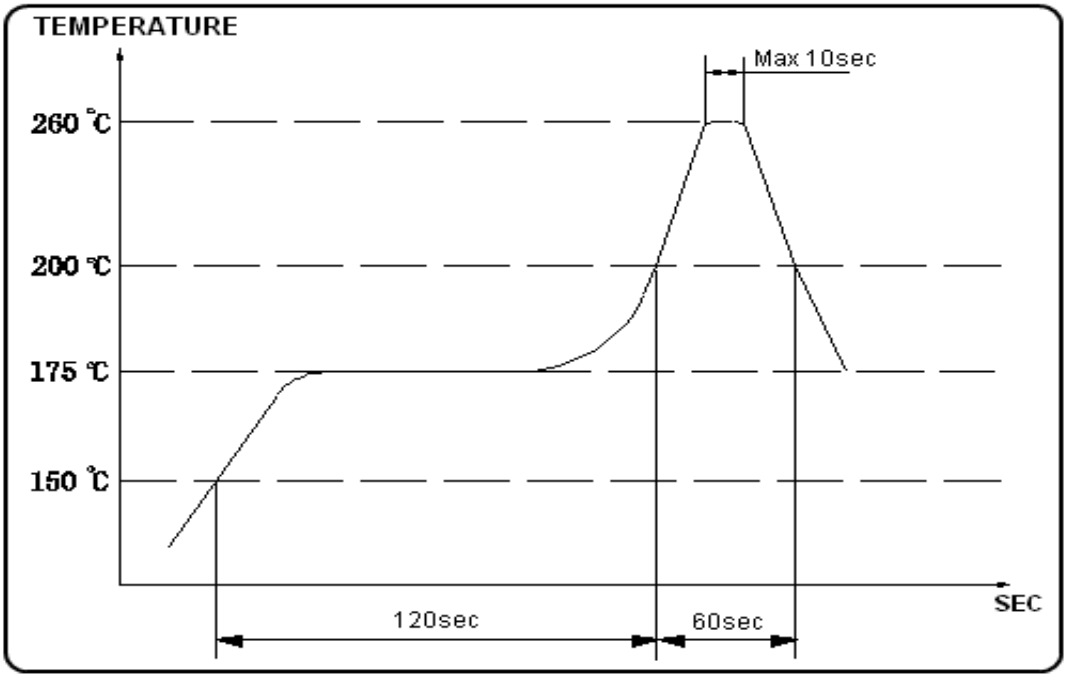
4. Frequency Response Curve



5. Recommend Reflowing Profile



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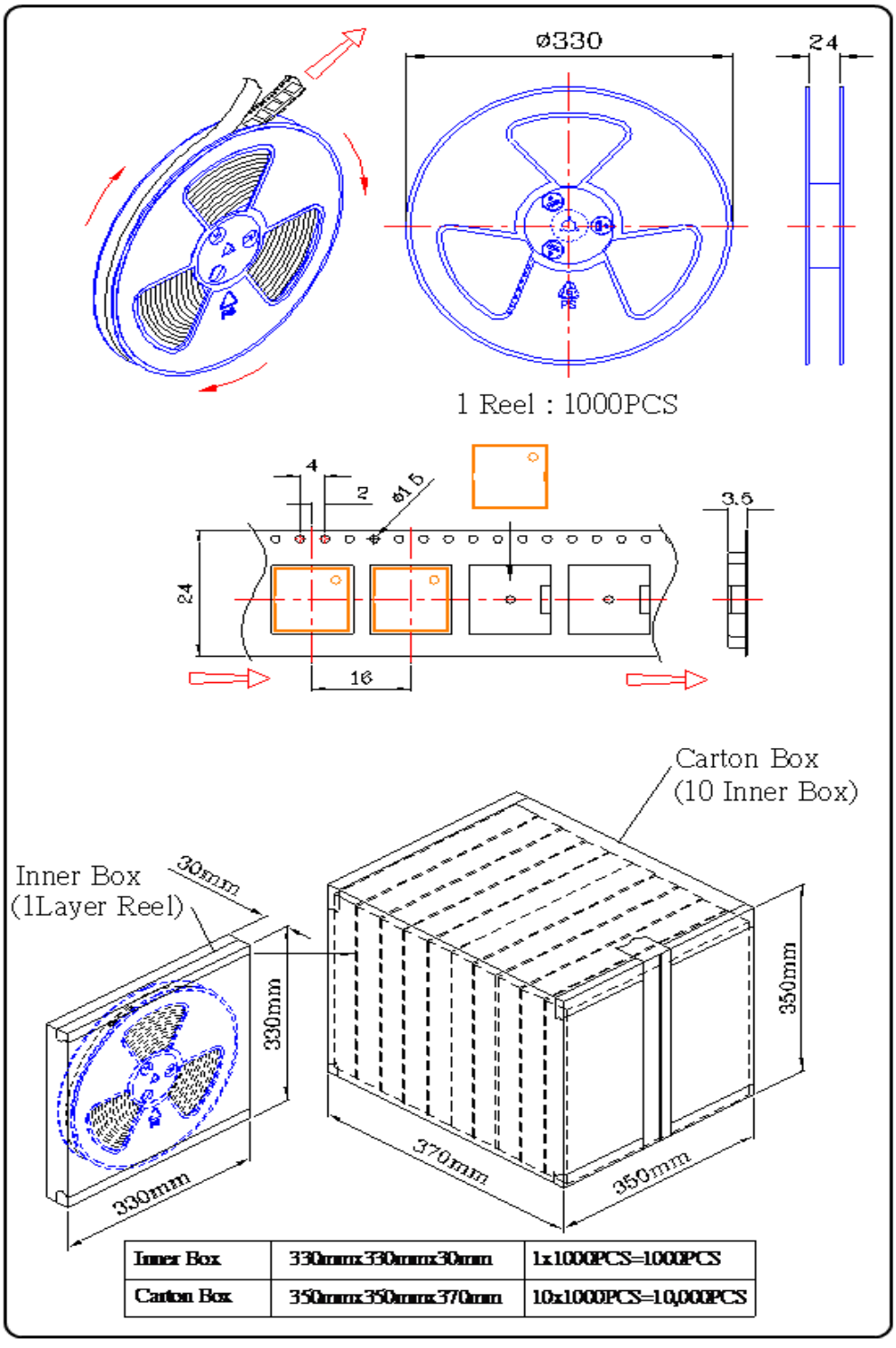
6. Packing Information



Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

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