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## SPECIFICATIONS SHEET FOR APPROVAL

EXTERNAL DRIVE PIEZO TRANSDUCER

P/N: PTS1117ALM-02

**DESCRIPTION: L11mm, W9mm, H1.7mm EDPT, 4100Hz, 5Vp-p,  
75dB at 10cm, 12000pF, SMD, RoHS Compliance (Directive  
2002/95/EC)**

**VERSION: 01****DATE: 8-Oct-10**

### REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	8-Oct-10

**APPROVED BY :**

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**CUSTOMER NAME :****DATE :**

## SPECIFICATIONS SHEET

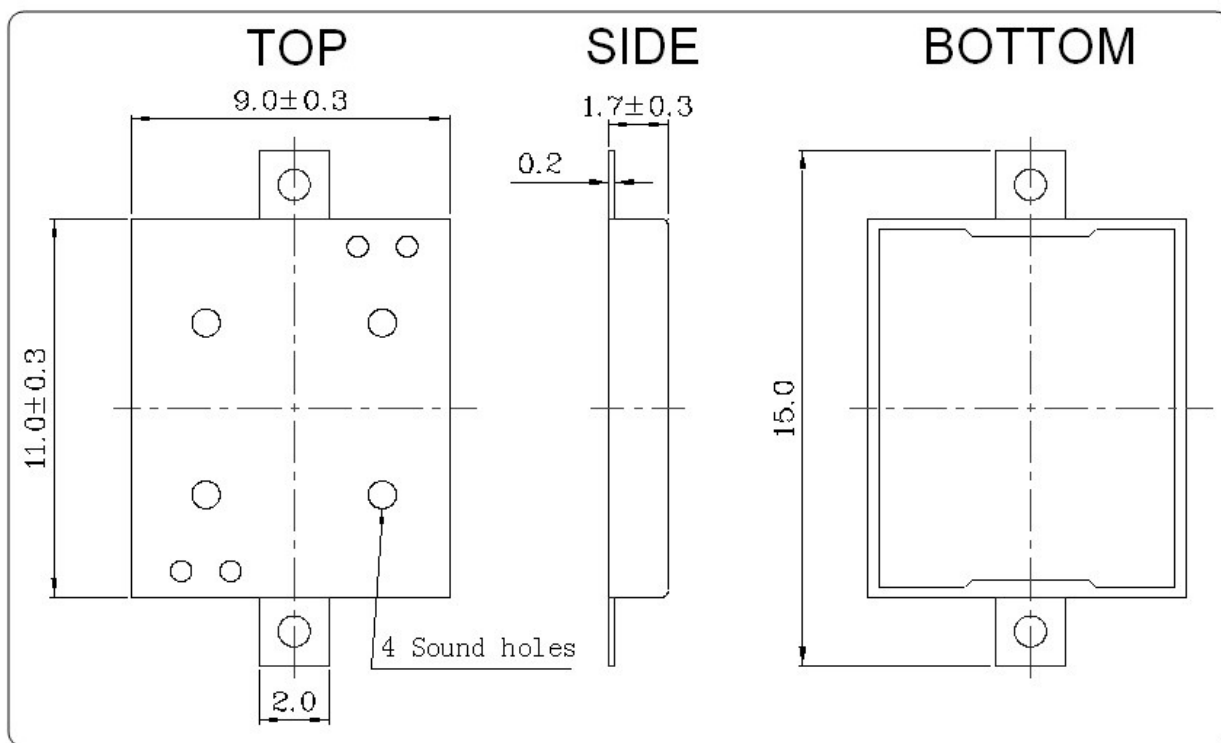
EXTERNAL DRIVE PIEZO TRANSDUCER  
P/N: PTS1117ALM-02

### 1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	75	dB
RATED VOLTAGE	5	Vp-p
MAX OPERATING VOLTAGE	20	Vp-p
RESONANCE FREQUENCY	4,100	Hz
CAPACITANCE AT 100Hz	12,000 ± 30%	pF
OPERATING TEMPERATURE	-40 to +105	°C
STORAGE TEMPERATURE	-40 to +120	°C
HOUSING	LCP	-
WEIGHT	0.3	g

\*Value applying rated voltage and resonance frequency

### 2. DIMENSIONS (unit in mm)



Tolerance:  $\pm 0.5$ mm except specified

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All specifications subject to change without notice

### 3. RELIABILITY TEST

#### Testing Criteria

All specifications (in page 2) must be satisfied after below tests.

(Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber.)

#### 1) Life Test

At 5 Vp-p, 1 minutes ON 1 minutes OFF in room temperature continuously.

#### 2) Temperature Test

##### a) High Temperature

Exposure at  $+120 \pm 3^\circ\text{C}$  for 240 hours(Non-Functioning); Exposure at  $+105 \pm 3^\circ\text{C}$  for 240 hours(Functioning)

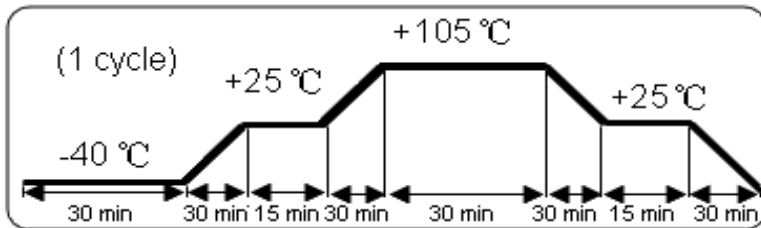
##### b) Low Temperature

Exposure at  $-40 \pm 3^\circ\text{C}$  for 240 hours(Non-Functioning); Exposure at  $-40 \pm 3^\circ\text{C}$  for 240 hours(Functioning)

#### 3) Humidity Test

Exposure at  $+40 \pm 3^\circ\text{C}$  and 90%-95% relative humidity for 240 hours.

#### 4) Thermal Shock Test



#### 5) Drop Test

Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied.

#### 6) Vibration Test

Frequency: 10~55~10Hz Oct/min ,Amplitude: 1.5mm Duration: 2 hours in each 3 axes

#### 7) Shock

980m/s<sup>2</sup> (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each.

#### 8) Soldering Heat Resistance

Samples put through reflowing soldering oven 2 twice.

#### 9) Solderability

Samples put on PCB with solder paste through reflowing soldering oven 1 time.

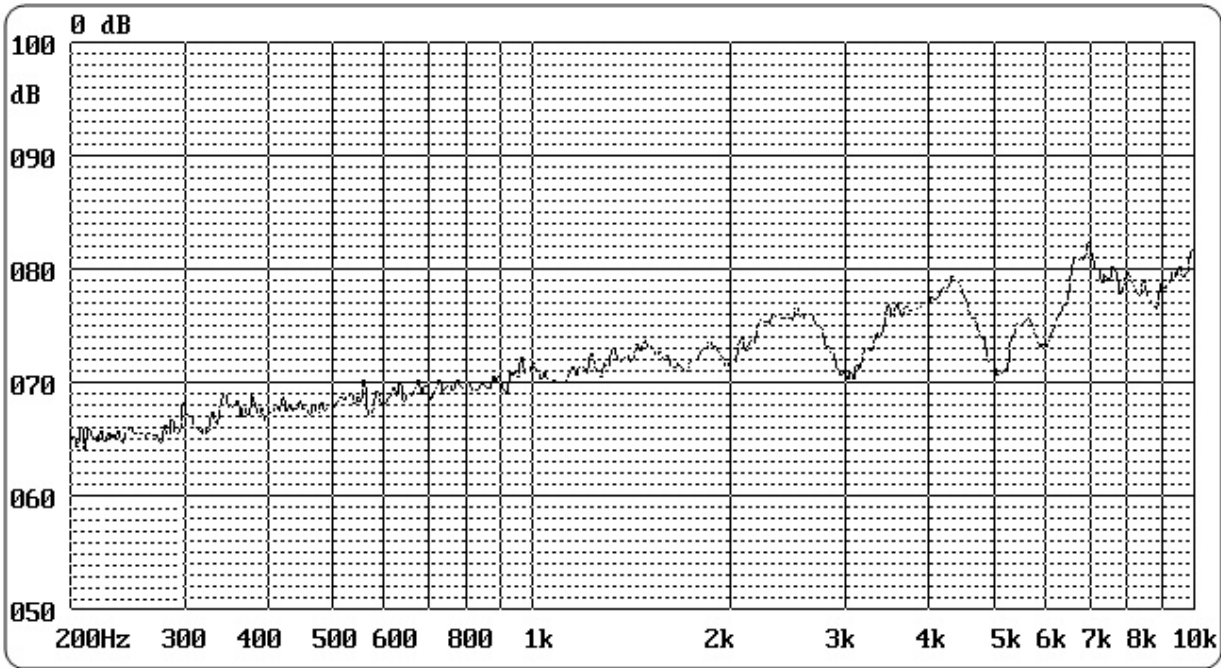
#### 10) Warranty

For a period of one (1) year from date of manufacture under normal operations.

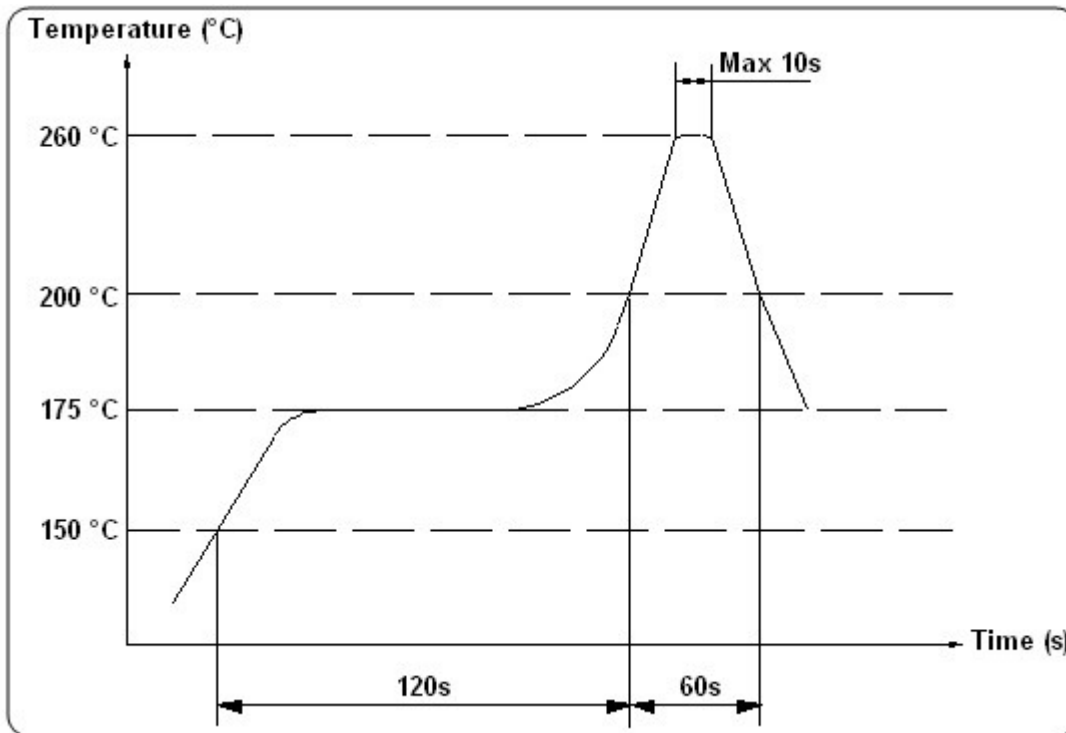
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#### 4. FREQUENCY RESPONSE CURVE

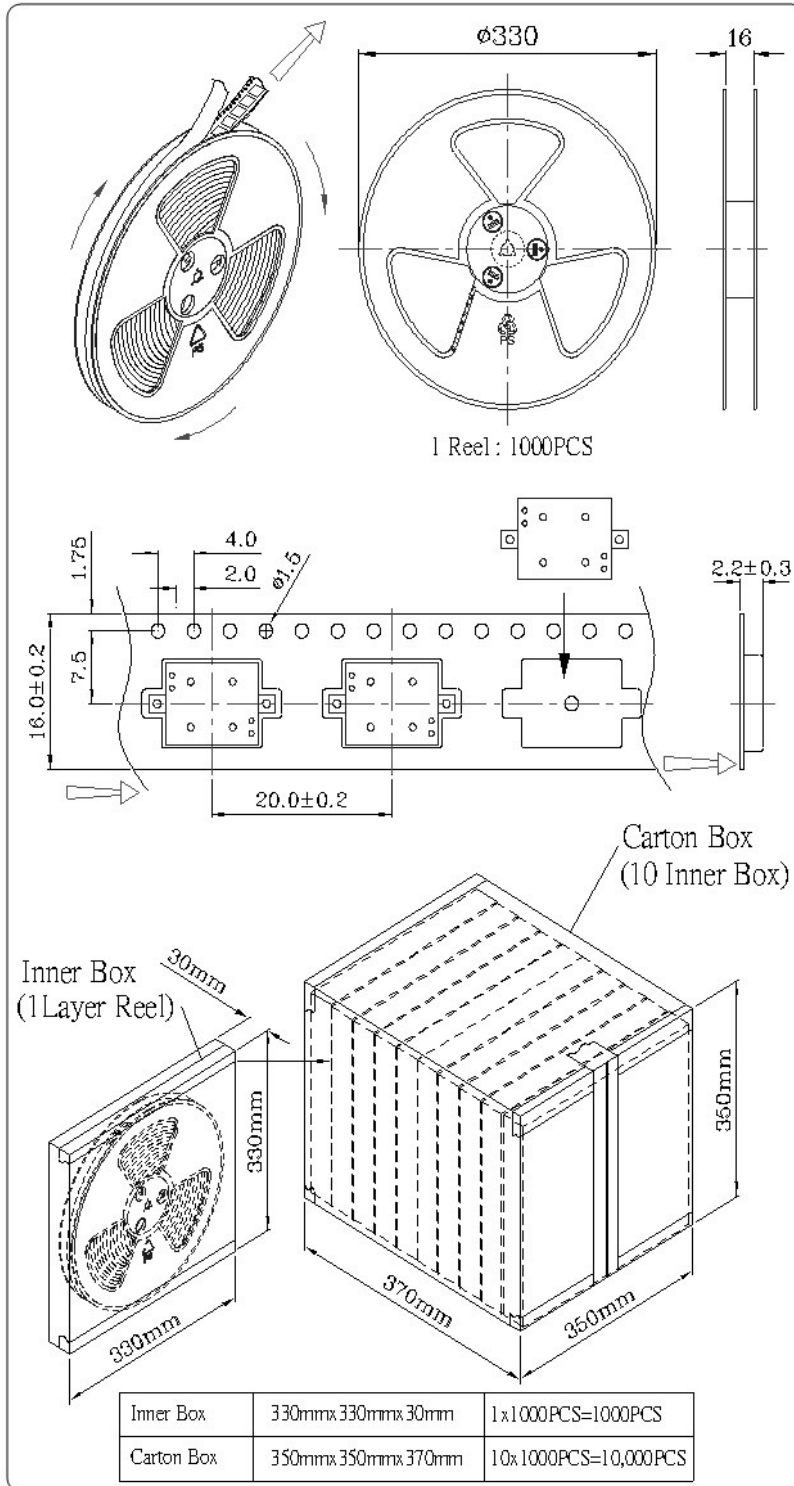


#### 5. RECOMMEND REFLOWING PROFILE



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**6. PACKING INFORMATION**



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