

SPECIFICATIONS SHEET FOR APPROVAL

EXTERNAL DRIVE PIEZO TRANSDUCER
P/N: PT1470AHP-01

DESCRIPTION: D14mm, H7.0mm Piezo Transducer, 4000Hz, 5Vp-p,
85dB at 10cm, 12000pF

VERSION: 01

DATE: 17-Mar-2022

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	17-Mar-2022

APPROVED BY :

CUSTOMER NAME :

DATE :

SPECIFICATIONS SHEET

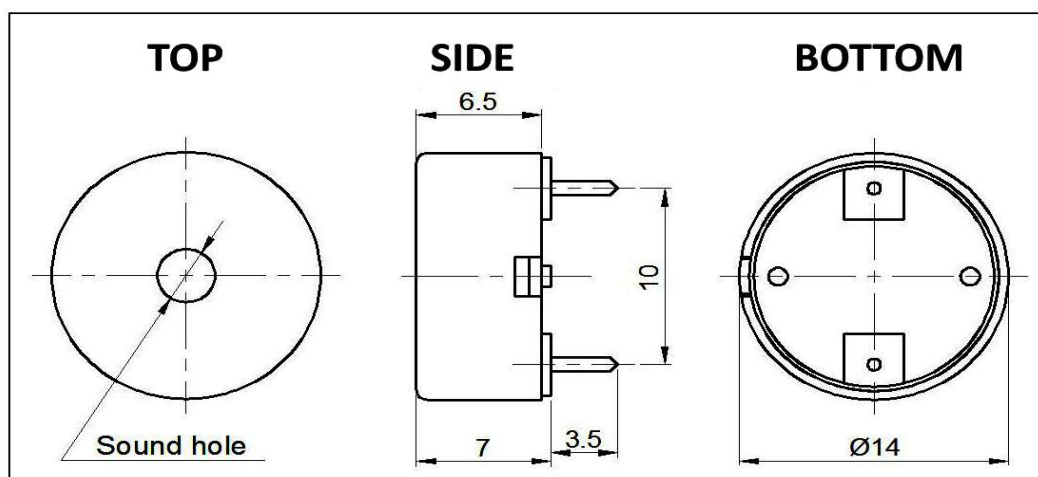
EXTERNAL DRIVE PIEZO TRANSDUCER
P/N: PT1470AHP-01

1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	85	dBA
RATED VOLTAGE	5	Vp-p
MAX OPERATING VOLTAGE	20	Vp-p
RESONANCE FREQUENCY	4,000	Hz
CAPACITANCE AT 1KHz	12,000 ± 30%	pF
OPERATING TEMPERATURE	-30 to +85	°C
STORAGE TEMPERATURE	-40 to +90	°C
HOUSING	PBT	-

*Value applying rated voltage and resonance frequency

2. DIMENSIONS (unit in mm)



Tolerance: ±0.5mm except specified

VERSION: 01

DATE: 17-Mar-2022

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 FOR 96 hours.

2) Temperature Test

a) High Temperature

Exposure at $+85 \pm 3^{\circ}\text{C}$ for 96 hours(Non-Functioning); Exposure at $+60 \pm 3^{\circ}\text{C}$ for 96 hours(Functioning)

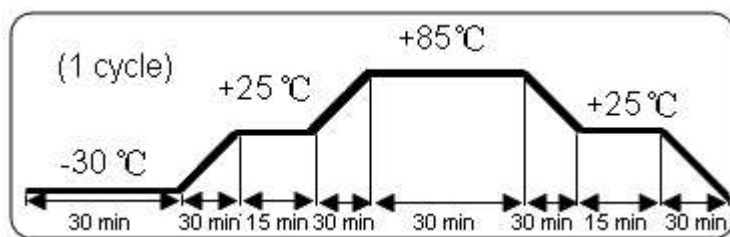
b) Low Temperature

Exposure at $-35 \pm 3^{\circ}\text{C}$ for 96 hours(Non-Functioning); Exposure at $-20 \pm 3^{\circ}\text{C}$ for 96 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



Exposure to above temperature cycle for 5 times.

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/s² (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each.

VERSION: 01

DATE: 17-Mar-2022