CUDEVICES



# **MODEL:** CPT-1762-90-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER

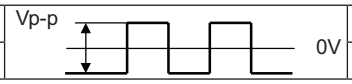
## FEATURES

- externally driven
- continuous tone
- surface mount



RoHS

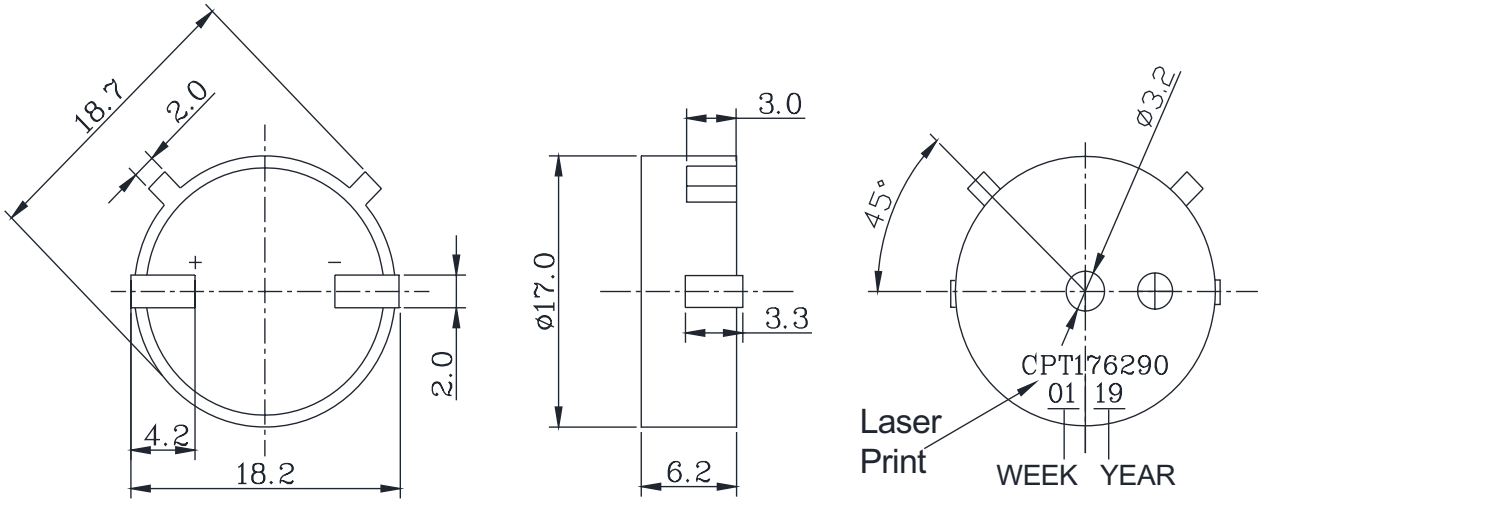
## SPECIFICATIONS

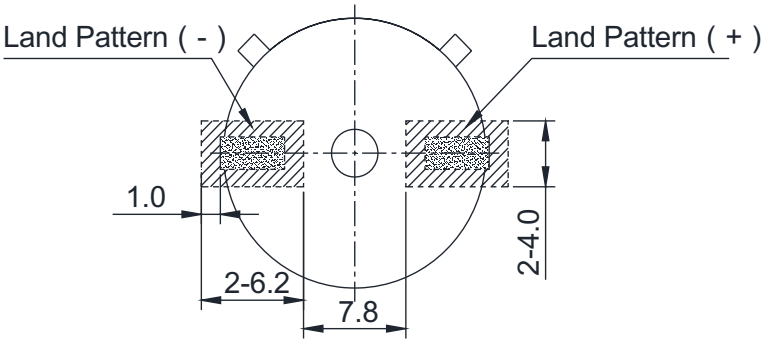
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated voltage |   | | 12 | | Vp-p |
| operating voltage | | | | 30 | Vp-p |
| current consumption | at rated voltage, 4,000 Hz, ½ duty square wave | | | 12 | mA |
| rated frequency | | | 4,000 | | Hz |
| sound pressure level | at 10 cm, rated voltage, 4,000 Hz, ½ duty square wave | 90 | | | dB |
| electrostatic capacitance | at 100 Hz/1 V | 11,200 | 16,000 | 20,800 | pF |
| dimensions | Ø17.0 x 6.2 | | | | mm |
| weight | | | | 2.0 | g |
| material | PPS | | | | |
| terminal | surface mount (tin plating) | | | | |
| operating temperature | | -40 | | 85 | °C |
| storage temperature | | -40 | | 90 | °C |
| washable | no | | | | |
| RoHS | yes | | | | |

Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

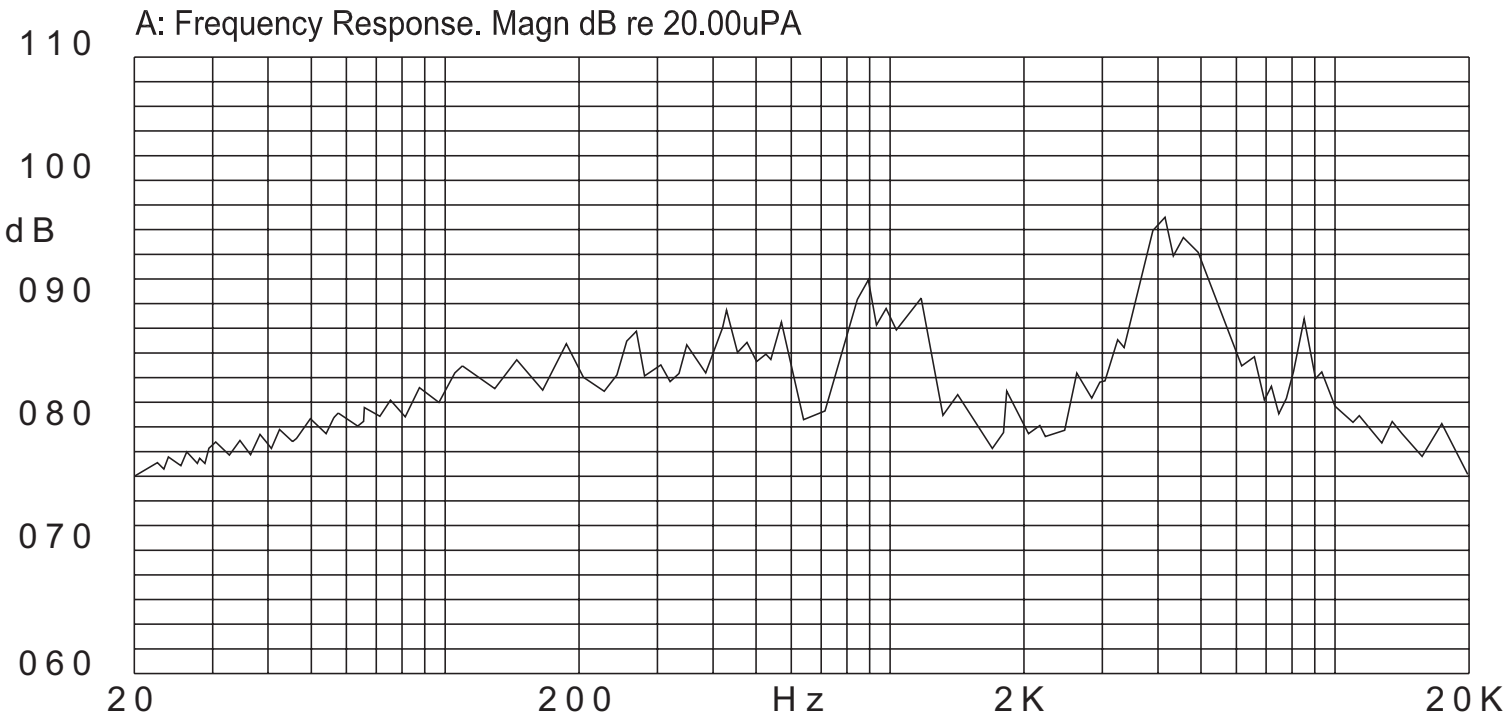
units: mm
tolerance: ±0.5 mm



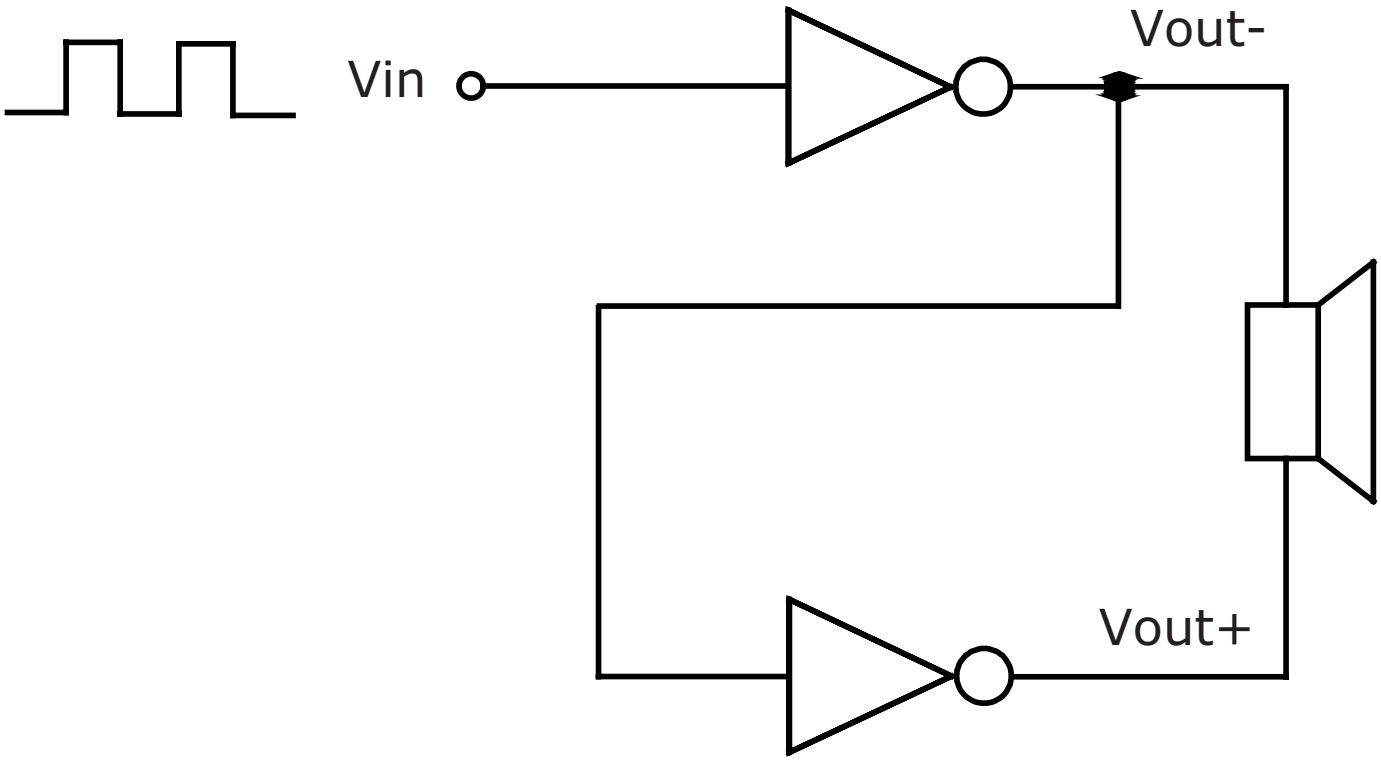




Recommended PCB Layout
Top View

## FREQUENCY RESPONSE CURVE



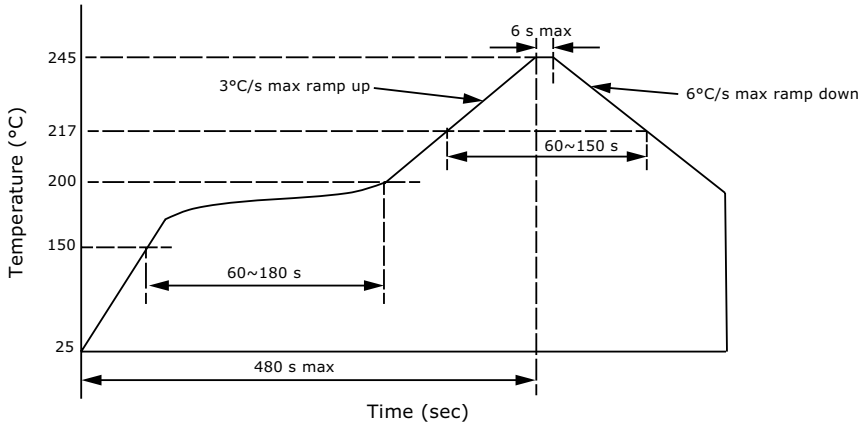

## APPLICATION CIRCUIT



## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reflow soldering[4] | as per IPC/JEDEC J-STD-020C | | 240 | 245 | °C |
| drying conditions[5] | bake at 40°C for 24 hours | | | | |

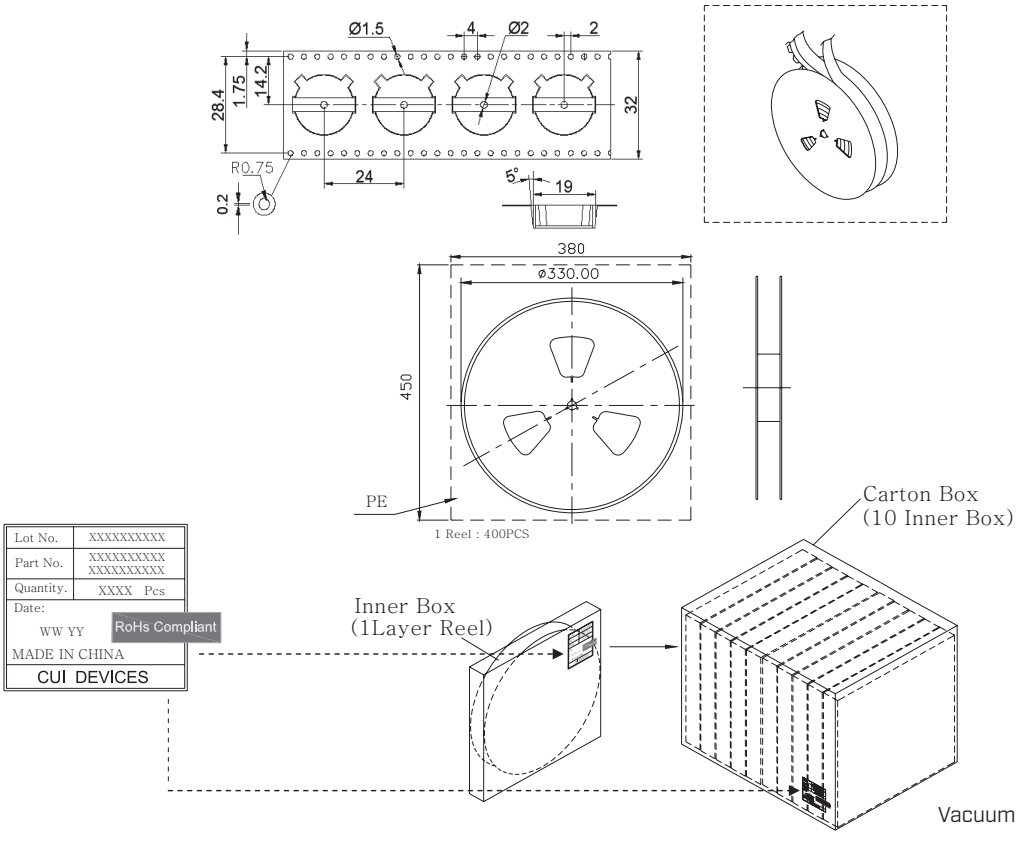
Note: 2. Not suitable for wash process.
3. It is recommended to reflow solder only once.
4. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
5. When out of packaging for more than 48 hours.




## PACKAGING

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage[6] | at relative humidity 15~85% | -10 | | 40 | °C |
| reel QTY | 400 | | | | |
| carton QTY | 4,000 | | | | |

Note: 6. Recommended storage period no more than 6 months. Floor life (out of bag) use immediately.



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 12/12/2019 |
| 1.01 | updated packaging | 01/08/2020 |
| 1.02 | updated packaging | 10/06/2020 |
| 1.03 | logo, datasheet style update | 08/05/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.

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