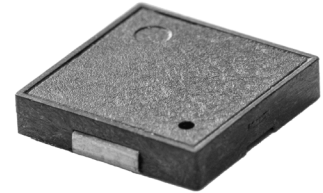
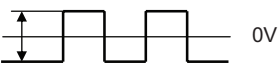


**MODEL:** CPT-9019B-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- externally driven
- low profile
- SMT
- vertical pads in reel

**SPECIFICATIONS**

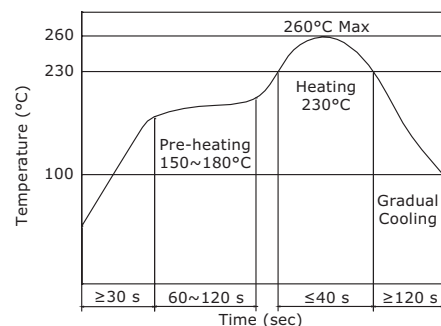
| parameter                 | conditions/description                                                                 | min   | typ    | max    | units |
|---------------------------|----------------------------------------------------------------------------------------|-------|--------|--------|-------|
| rated voltage             | Vp-p  |       | 3      |        | Vp-p  |
| operating voltage         |                                                                                        | 1     |        | 25     | Vp-p  |
| current consumption       | at rated voltage, 4,000 Hz, ½ duty square wave                                         |       |        | 1      | mA    |
| rated frequency           |                                                                                        |       | 4,000  |        | Hz    |
| sound pressure level      | at 10 cm, rated voltage, 4,000 Hz, ½ duty square wave                                  | 72    | 75     |        | dB    |
| electrostatic capacitance | at 1 kHz                                                                               | 8,400 | 12,000 | 15,600 | pF    |
| dimensions                | 9 x 9 x 1.9                                                                            |       |        |        | mm    |
| weight                    |                                                                                        |       | 0.2    |        | g     |
| material                  | LCP                                                                                    |       |        |        |       |
| terminal                  | surface mount (brass with tin plating)                                                 |       |        |        |       |
| operating temperature     |                                                                                        | -40   |        | 85     | °C    |
| storage temperature       |                                                                                        | -40   |        | 85     | °C    |
| washable                  | no                                                                                     |       |        |        |       |
| RoHS                      | yes                                                                                    |       |        |        |       |

Notes: 1. All specifications measured at 25±3°C, humidity at 60~70%, under 86~106 kPa pressure, unless otherwise noted.

**SOLDERABILITY**

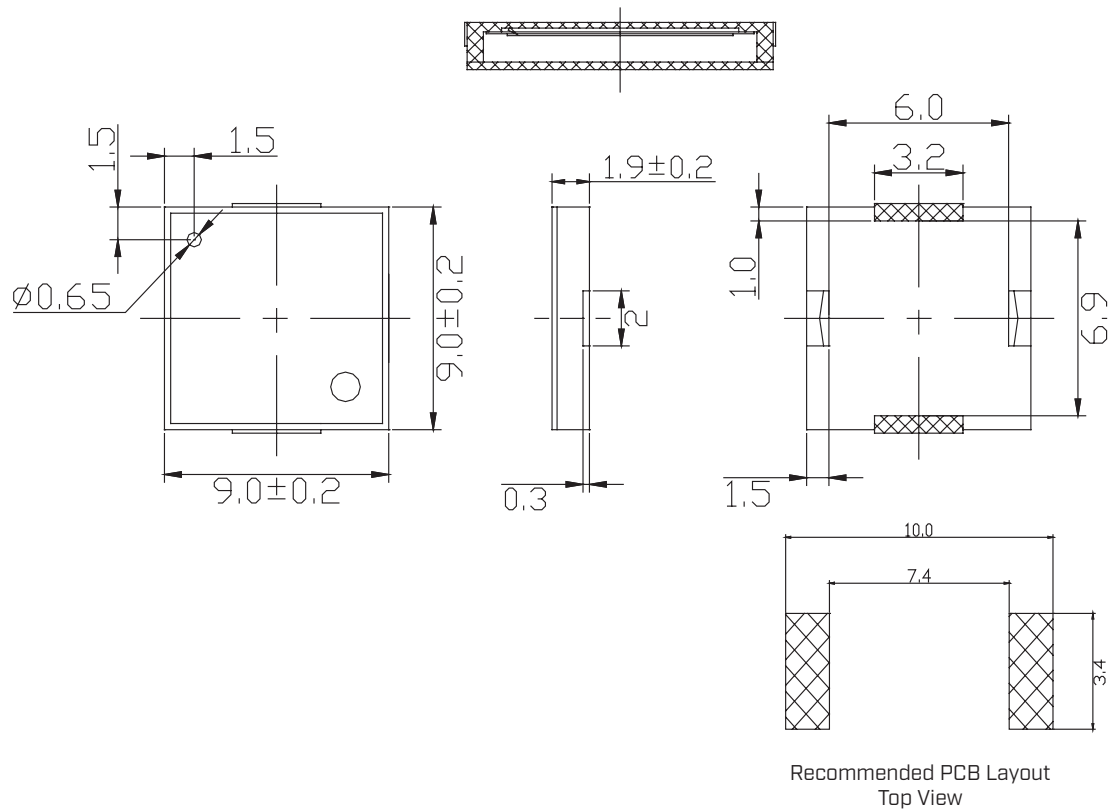
| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <40%                |     |     | 25  | °C    |
| reflow soldering <sup>2</sup>  | see recommended reflow soldering profile |     |     | 260 | °C    |
| drying conditions <sup>3</sup> | bake at 40°C for 24 hours                |     |     |     |       |

Note: 2. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
3. When out of packaging for more than 48 hours.

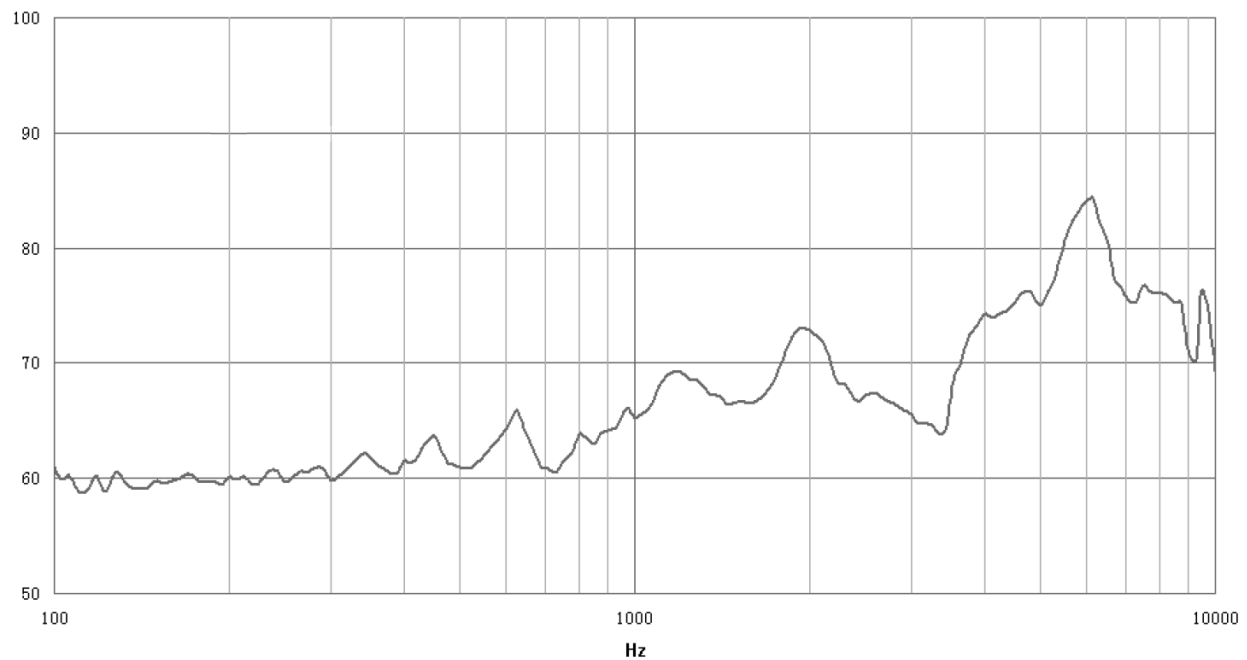


## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



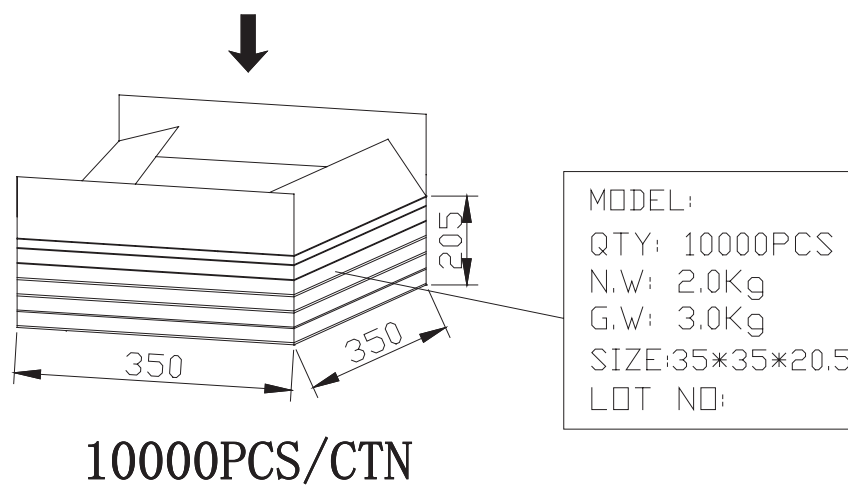
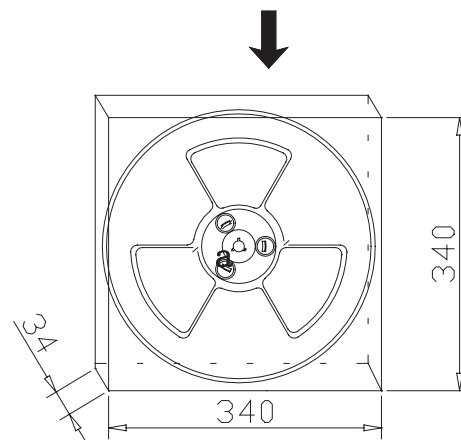
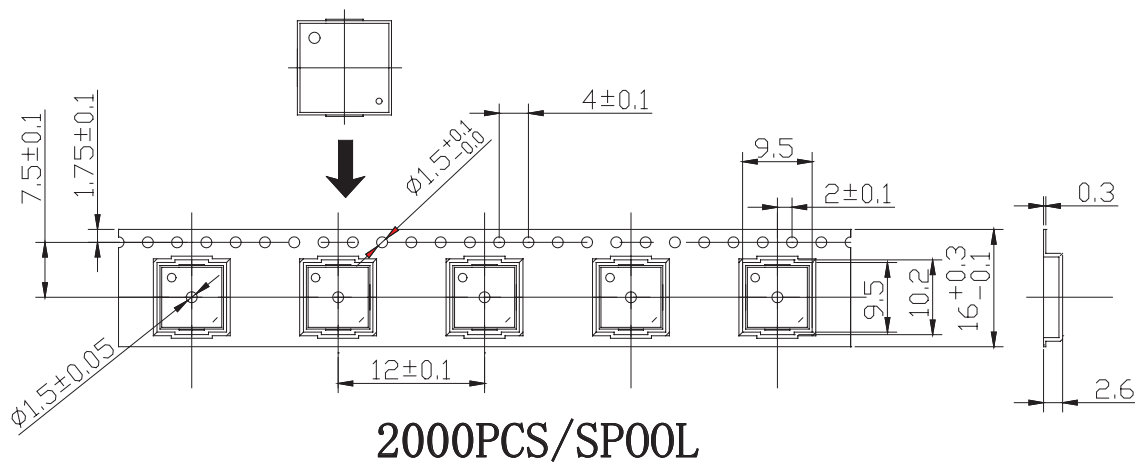
## FREQUENCY RESPONSE CURVE



## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm  
Reel QTY: 2,000 pcs per reel  
Carton Size: 350 x 350 x 205 mm  
Carton QTY: 10,000 pcs per carton



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 04/19/2023 |

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



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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