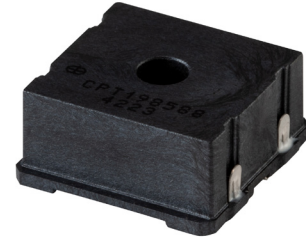
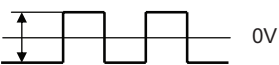


**MODEL:** CPT-1985-88-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- piezo
- 88 dB @ 0.1 m
- tape & reel

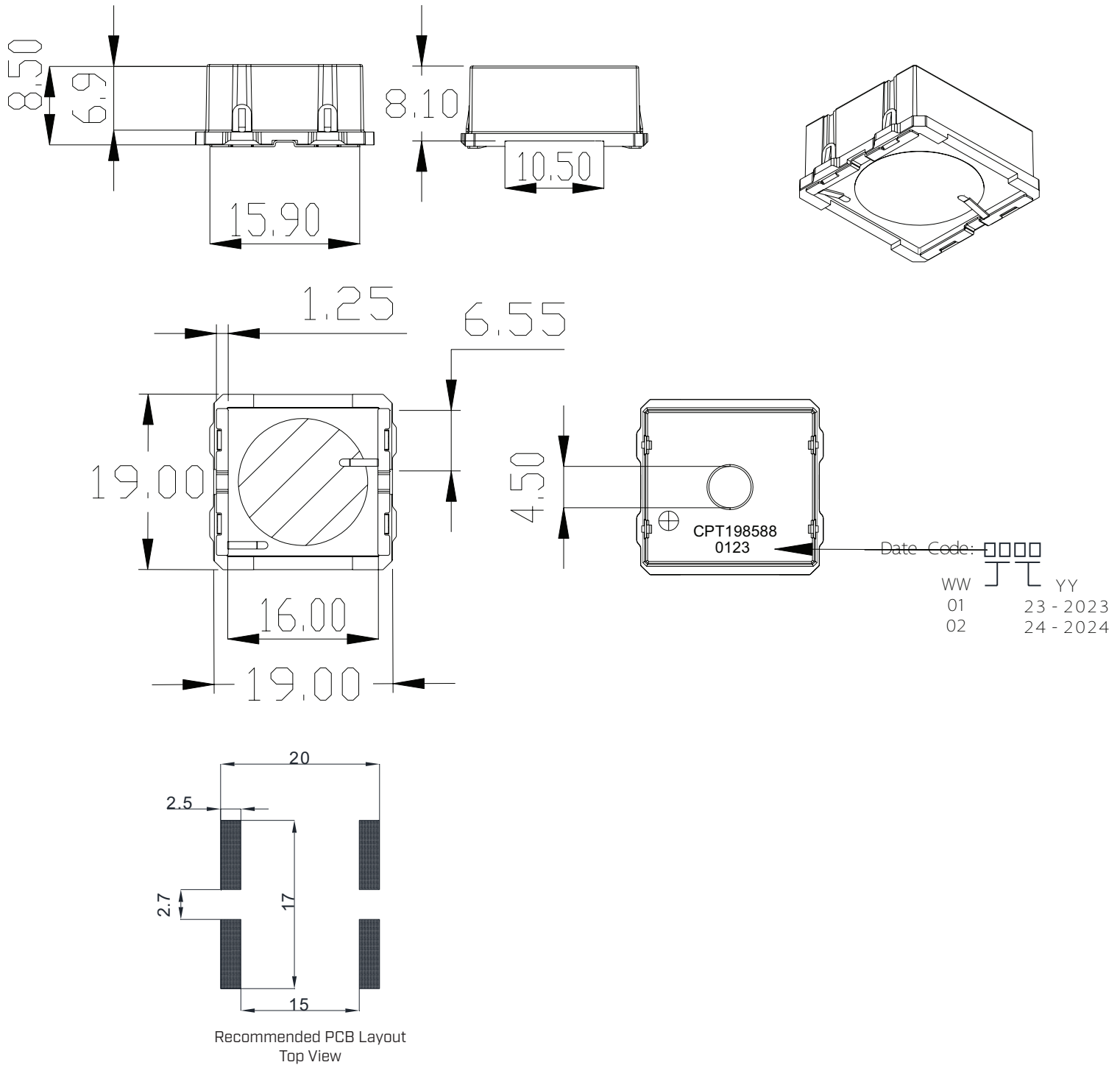
**SPECIFICATIONS**

| parameter                 | conditions/description   | min    | typ    | max    | units |
|---------------------------|--|--------|--------|--------|-------|
| rated voltage             | Vp-p  |        | 12     |        | Vp-p  |
| operating voltage         |  |        |        | 18     | Vp-p  |
| current consumption       | at rated voltage, 2,000 Hz, ½ duty square wave   |        |        | 38     | mA    |
| rated frequency           |  |        | 2,000  |        | Hz    |
| sound pressure level      | at 10 cm, rated voltage, 2,000 Hz, square wave   | 88     |        |        | dB    |
| electrostatic capacitance | at 100 Hz, 1 V   | 24,500 | 35,000 | 45,500 | pF    |
| dimensions                | 19 x 19 x 8.5  |        |        |        | mm    |
| weight                    |  |        |        | 2.0    | g     |
| material                  | LCP (black)  |        |        |        |       |
| terminal                  | surface mount (tin plating)  |        |        |        |       |
| operating temperature     |  | -40    |        | 85     | °C    |
| storage temperature       |  | -40    |        | 85     | °C    |
| washable                  | no   |        |        |        |       |
| RoHS                      | yes  |        |        |        |       |

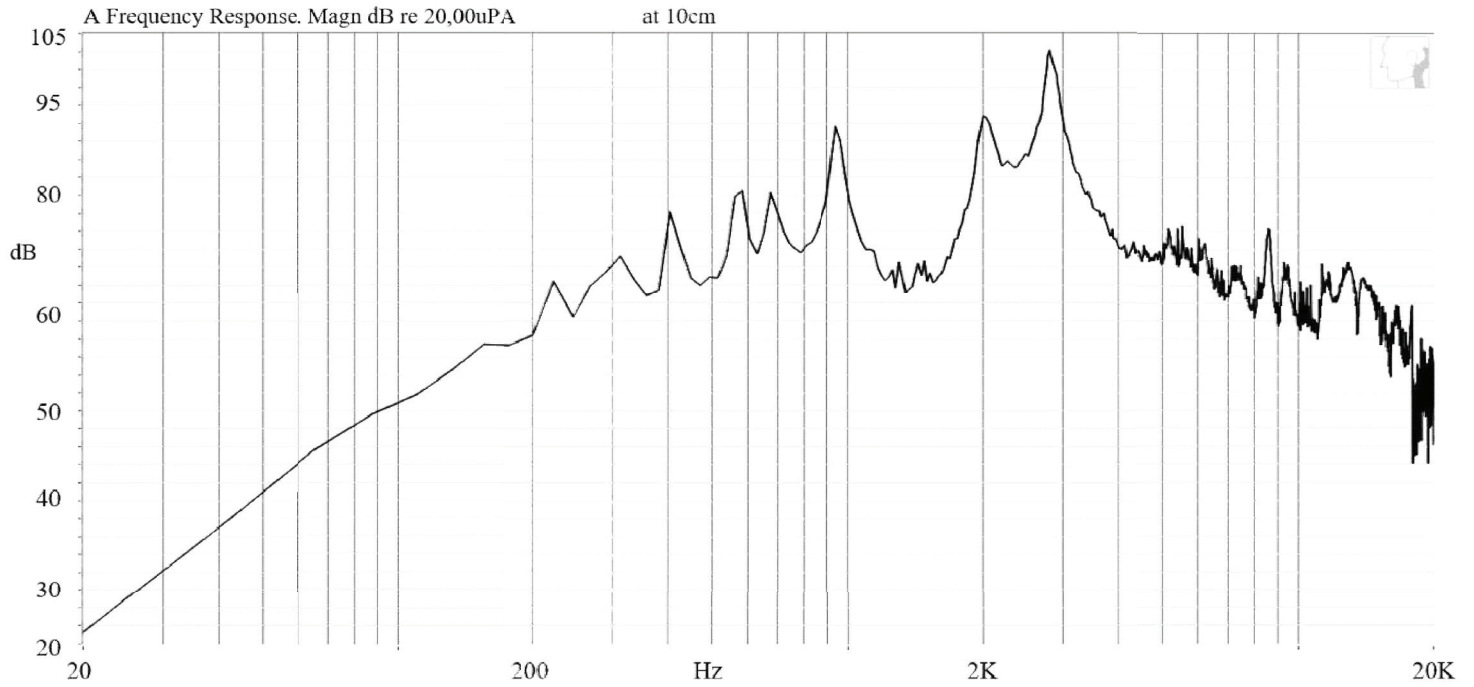
Notes: 1. All specifications measured at 5-35 °C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE

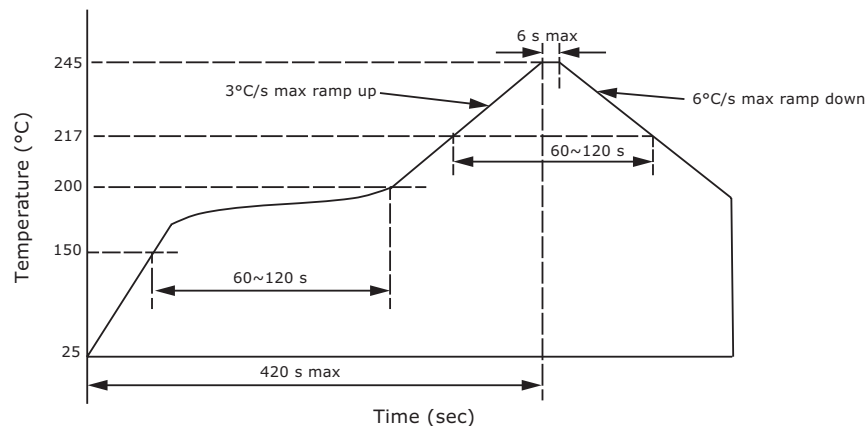


## SOLDERABILITY

| parameter                      | conditions/description      | min | typ | max | units |
|--------------------------------|-----------------------------|-----|-----|-----|-------|
| reflow soldering <sup>4</sup>  | as per IPC/JEDEC J-STD-020C |     | 240 | 245 | °C    |
| drying conditions <sup>5</sup> | 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.

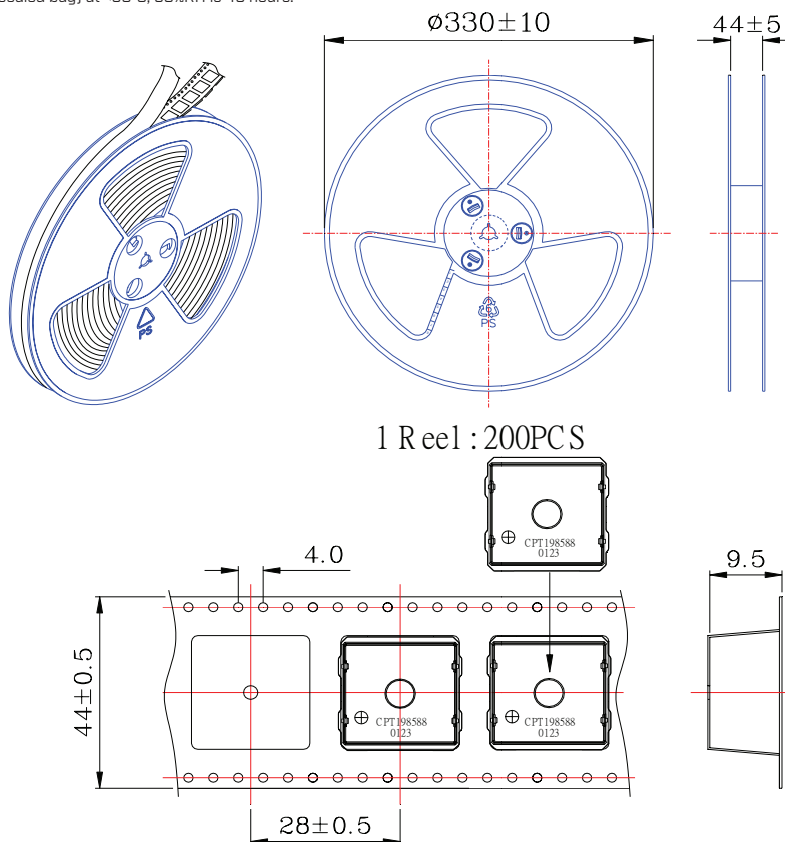


## PACKAGING

| parameter                 | conditions/description      | min | typ | max | units |
|---------------------------|-----------------------------|-----|-----|-----|-------|
| reel storage <sup>6</sup> | at relative humidity 15~85% | -10 |     | 40  | °C    |
| MSL                       | Class 5                     |     |     |     |       |
| reel QTY                  | 200                         |     |     |     |       |
| carton QTY                | 1,000                       |     |     |     |       |

Note:

6. Recommended floor life (out of sealed bag) at <30°C, 60%RH is 48 hours.



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 12/19/2023 |

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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