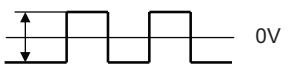


**MODEL:** CPT-12123-81-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- 25 Vp-p max operating voltage
- 81 dB

**SPECIFICATIONS**

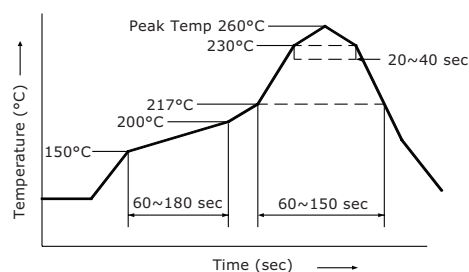
| parameter                 | conditions/description                                                                 | min    | typ    | max    | units |
|---------------------------|----------------------------------------------------------------------------------------|--------|--------|--------|-------|
| rated voltage             | Vp-p  |        | 5      |        | Vp-p  |
| operating voltage         |                                                                                        |        |        | 25     | Vp-p  |
| current consumption       | at 5 Vp-p, 4,000 Hz, ½ duty square wave                                                |        |        | 5      | mA    |
| rated frequency           |                                                                                        |        | 4,000  |        | Hz    |
| sound pressure level      | at 10 cm, 5 Vp-p, 4,000 Hz, square wave                                                | 81     |        |        | dB    |
| electrostatic capacitance | at 120 Hz / 1 V                                                                        | 11,200 | 16,000 | 20,800 | pF    |
| dimensions                | 12 x 12 x 3.0                                                                          |        |        |        | mm    |
| weight                    |                                                                                        |        |        | 0.5    | g     |
| material                  | LCP                                                                                    |        |        |        |       |
| terminal                  | surface mount (tin plating)                                                            |        |        |        |       |
| operating temperature     |                                                                                        | -40    |        | 120    | °C    |
| storage temperature       |                                                                                        | -40    |        | 120    | °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.

**SOLDERABILITY**

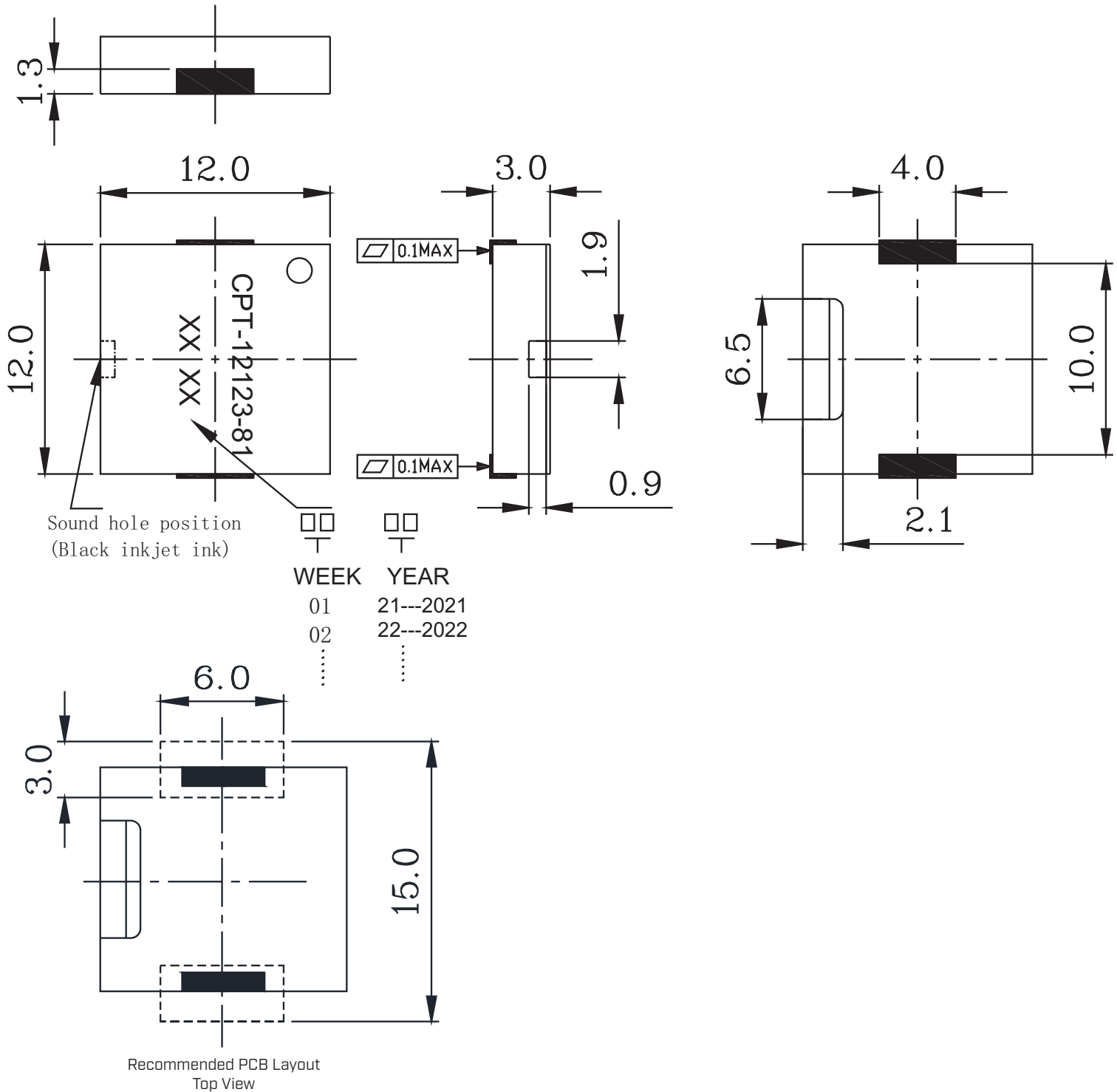
| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <40%                |     |     | 25  | °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.

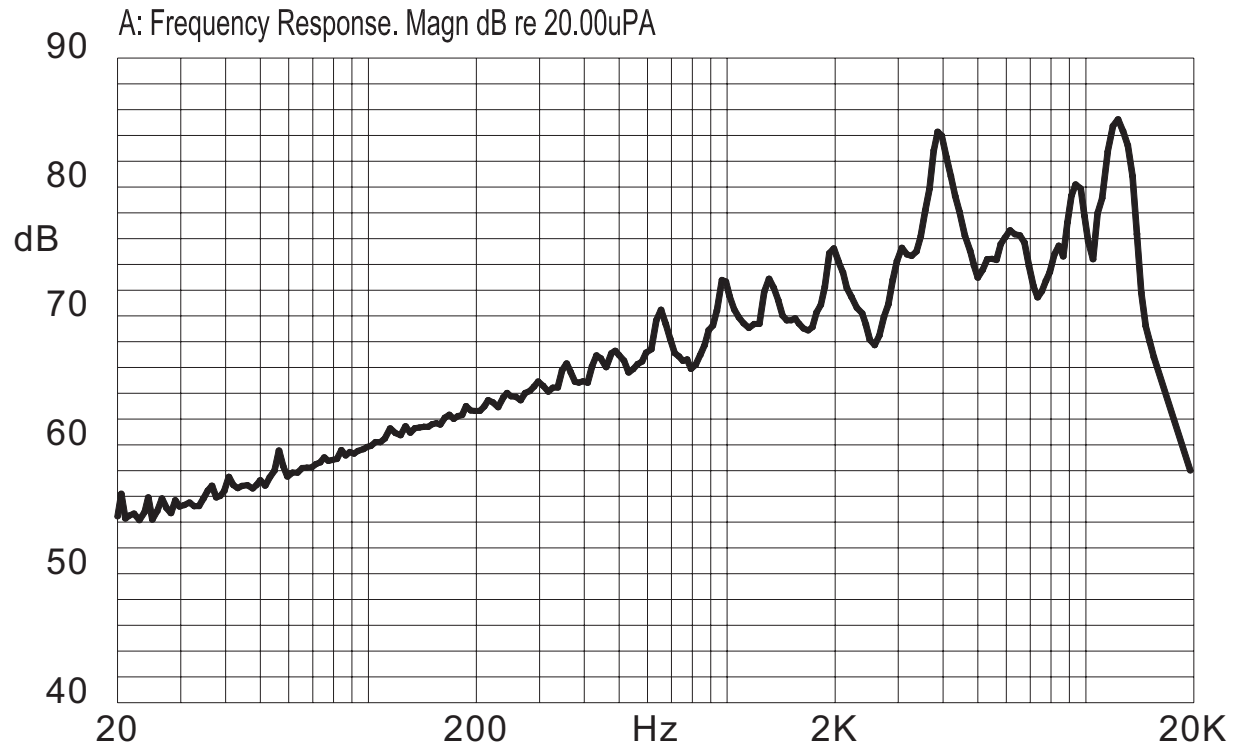


## MECHANICAL DRAWING

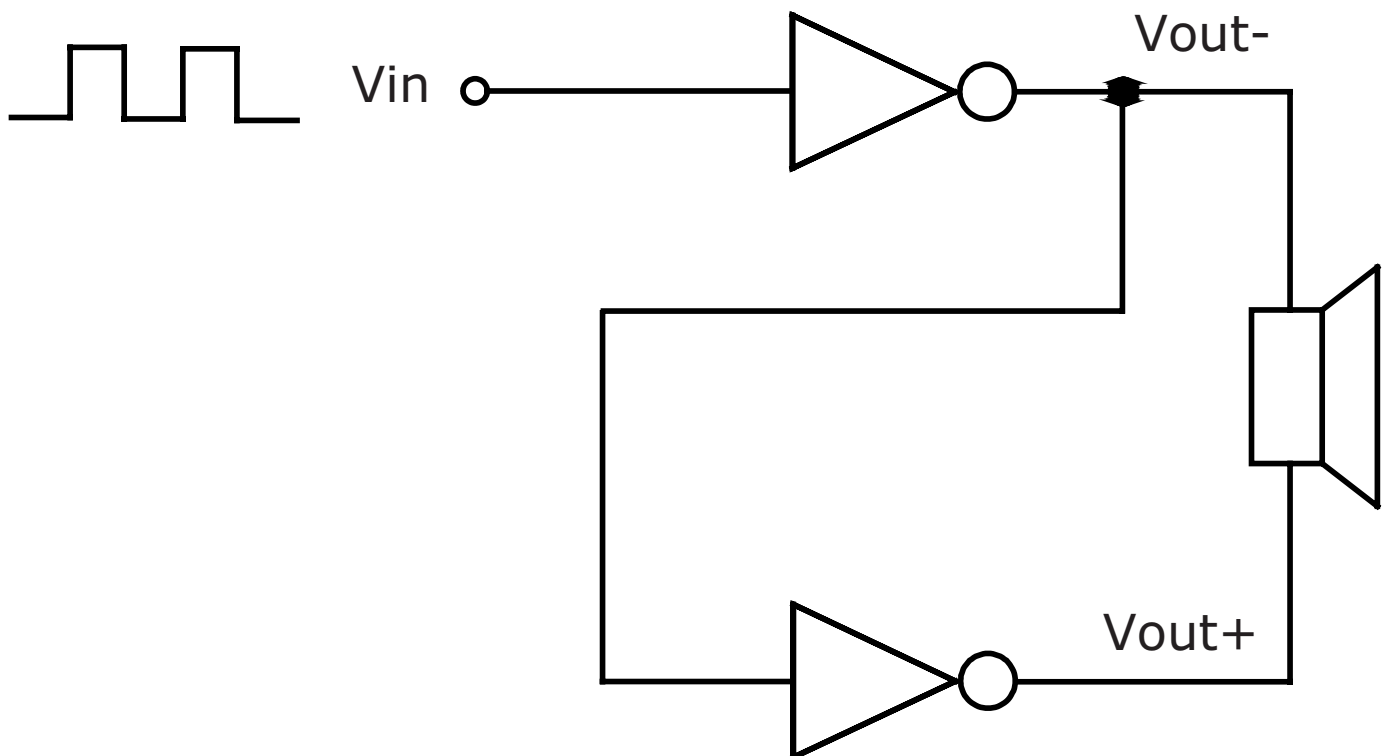
units: mm  
tolerance:  $\pm 0.3$  mm



## FREQUENCY RESPONSE CURVE



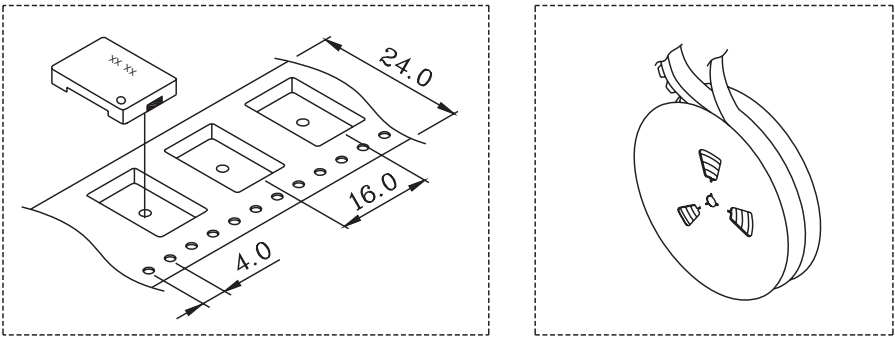
## APPLICATION CIRCUIT



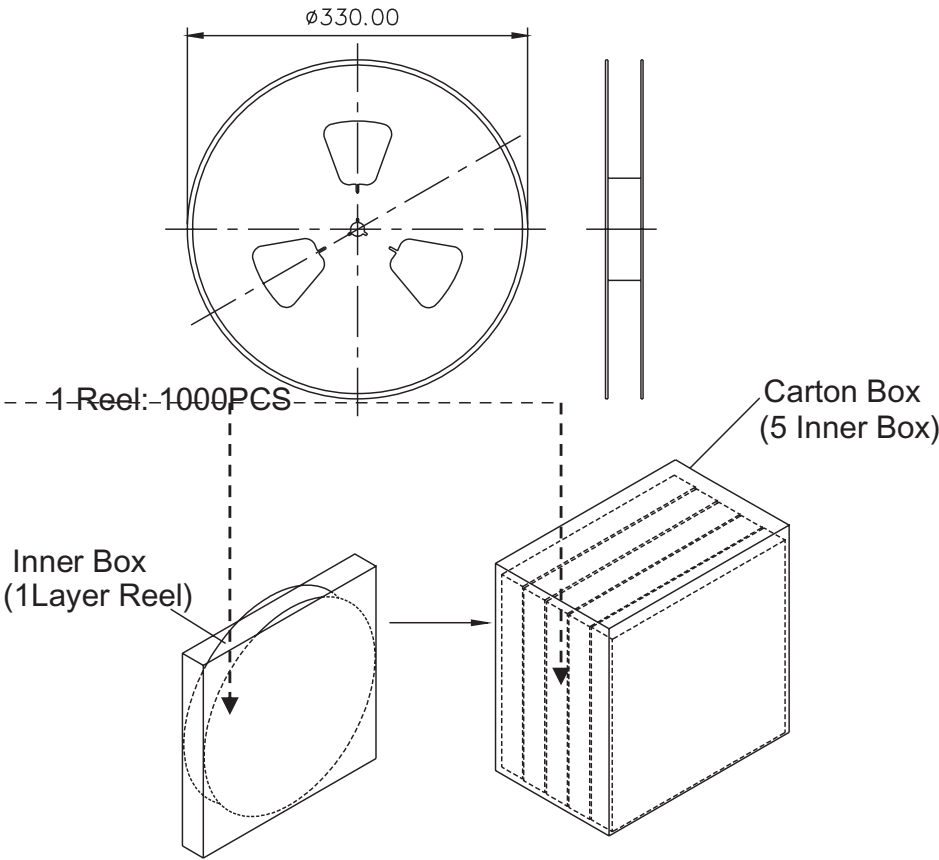
PACKAGING

units: mm

Inner Carton Size: 340 x 340 x 35 mm  
Carton Size: 350 x 355 x 195 mm  
Inner Carton QTY: 1,000 pcs per reel  
Carton QTY: 5,000 pcs per carton



|               |                          |
|---------------|--------------------------|
| Lot No.       | XXXXXXXXXX               |
| Part No.      | XXXXXXXXXX<br>XXXXXXXXXX |
| Quantity.     | XXXX Pcs                 |
| Date:         |                          |
| DD MM YY      | RoHs Compliant           |
| MADE IN CHINA |                          |
|               |                          |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 07/07/2021 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/11/2024 |

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



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

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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