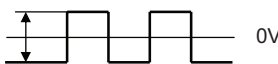


**MODEL:** CPT-147-85T | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- 10 Vp-p
- 85 dB
- through hole

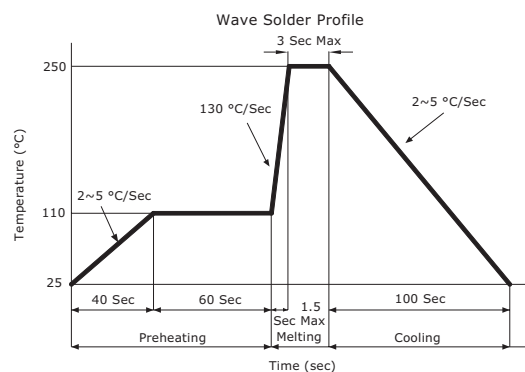
**SPECIFICATIONS**

| parameter                 | conditions/description                                                                 | min   | typ    | max    | units |
|---------------------------|----------------------------------------------------------------------------------------|-------|--------|--------|-------|
| rated voltage             | vp-p  |       | 10     |        | Vp-p  |
| operating voltage         |                                                                                        |       |        | 20     | Vp-p  |
| current consumption       | at rated voltage, 4,000 Hz, ½ duty square wave                                         |       |        | 7      | mA    |
| rated frequency           |                                                                                        |       | 4,000  |        | Hz    |
| sound pressure level      | at 10 cm, rated voltage, 4,000 Hz, ½ duty square wave                                  | 85    |        |        | dB    |
| electrostatic capacitance | at 1.0 V, 120 Hz                                                                       | 9,100 | 13,000 | 16,900 | pF    |
| dimensions                | Ø14.0 x 7.0                                                                            |       |        |        | mm    |
| weight                    |                                                                                        |       | 1.0    |        | g     |
| material                  | PBT                                                                                    |       |        |        |       |
| terminal                  | pins (tin plating)                                                                     |       |        |        |       |
| operating temperature     |                                                                                        | -40   |        | 85     | °C    |
| storage temperature       |                                                                                        | -40   |        | 85     | °C    |
| washable                  | yes                                                                                    |       |        |        |       |
| RoHS                      | yes                                                                                    |       |        |        |       |

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

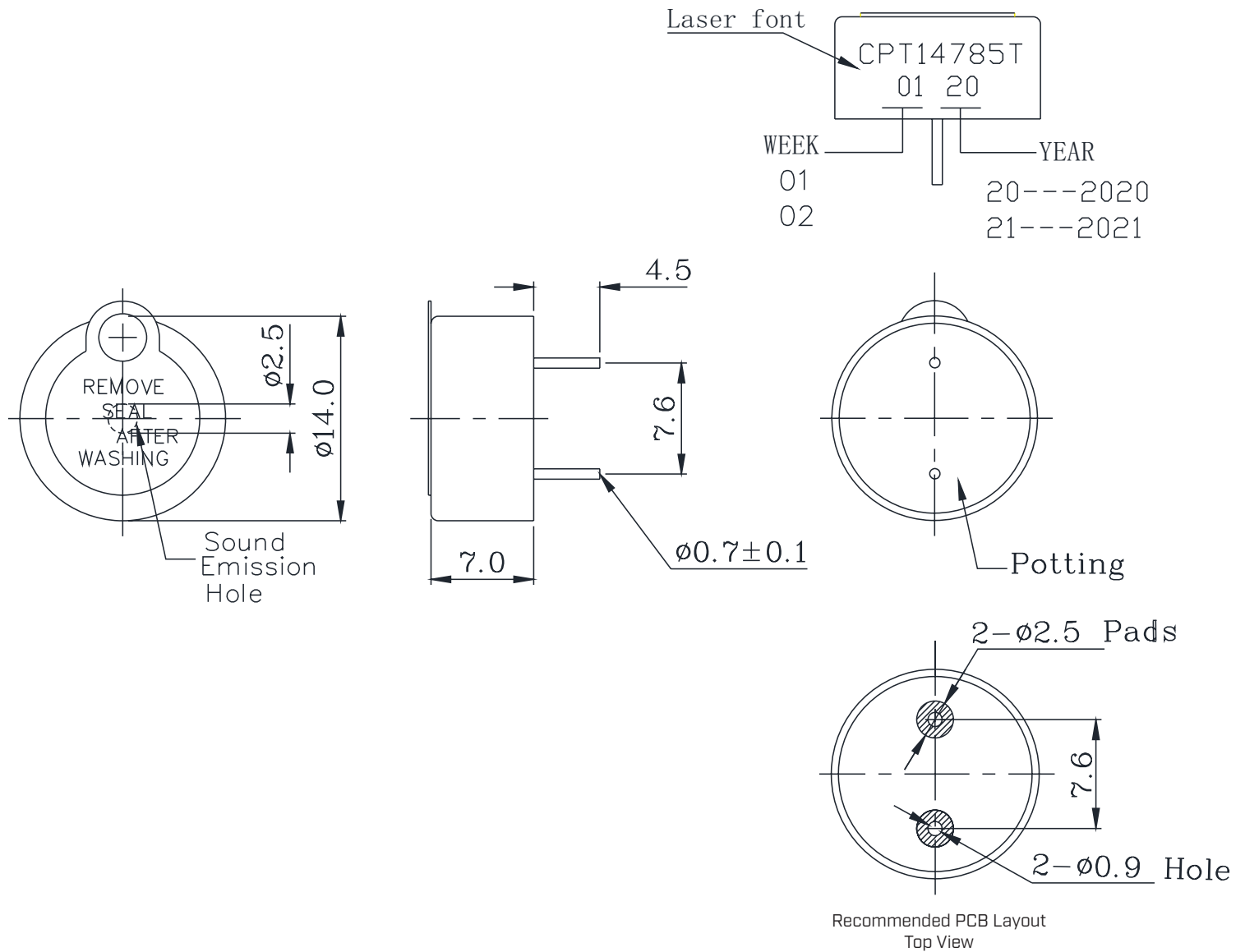
**SOLDERABILITY**

| parameter      | conditions/description                 | min | typ | max | units |
|----------------|----------------------------------------|-----|-----|-----|-------|
| hand soldering | maximum 2 seconds                      | 330 |     | 380 | °C    |
| wave soldering | see recommended wave soldering profile |     |     | 250 | °C    |

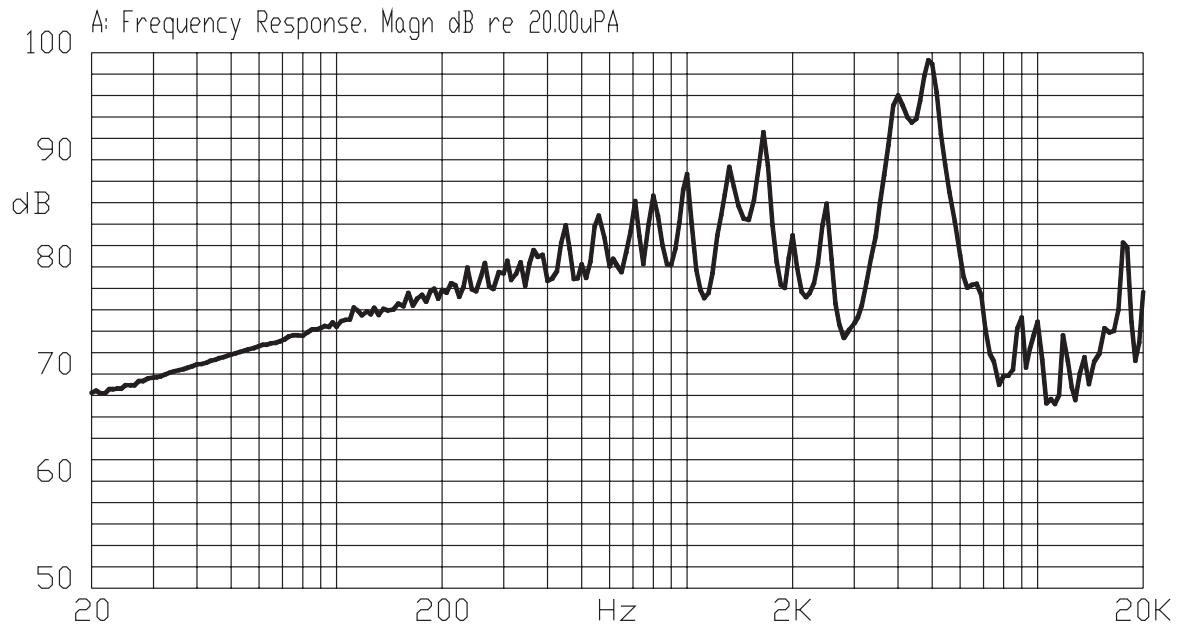


## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT

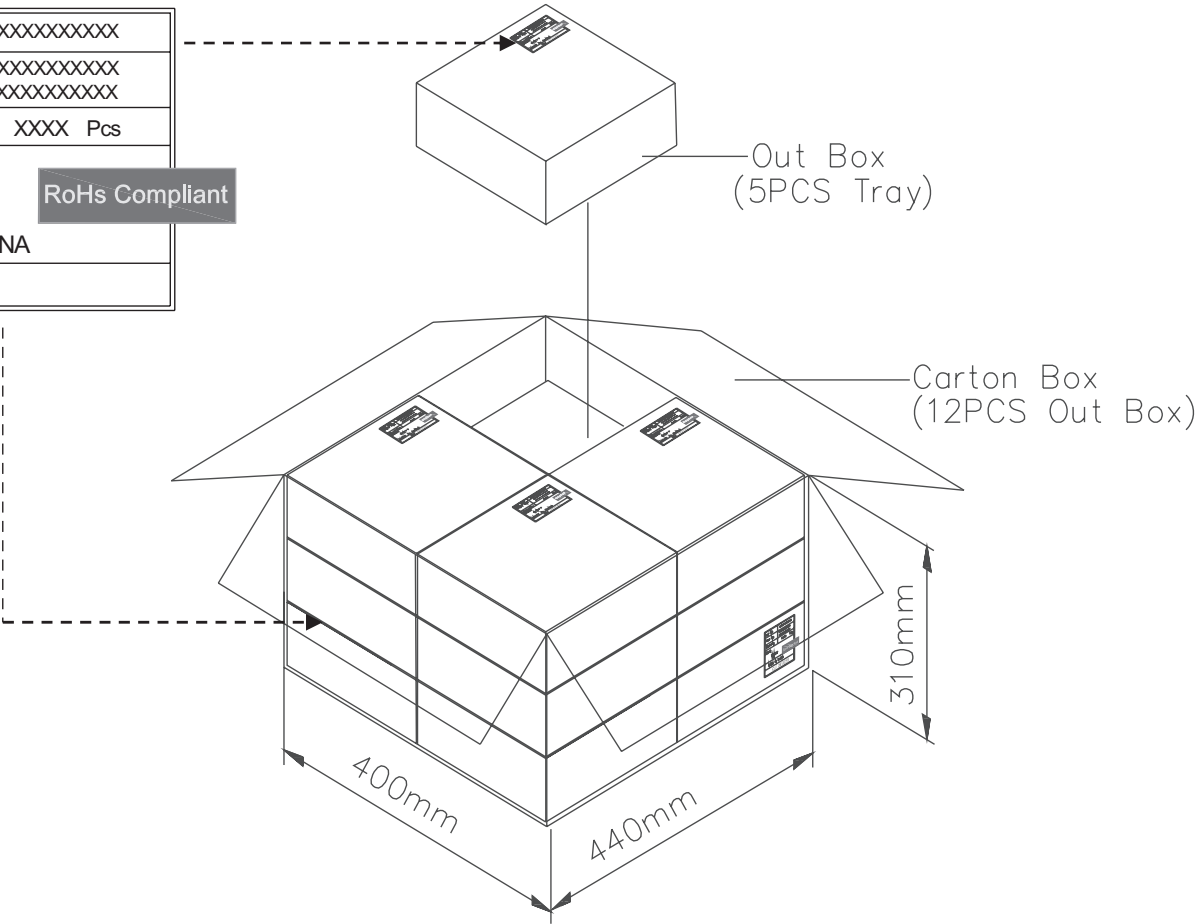


PACKAGING

units: mm

Tray Size: 184 x 180 x 23 mm  
Carton Size: 440 x 400 x 310 mm  
Tray QTY: 100 pcs per tray  
Carton QTY: 6,000 pcs per carton

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



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 09/15/2020 |
| 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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