

**MODEL:** CMT-1612-590T | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- round
- 5 mm pin pitch
- rated frequency 2048 Hz

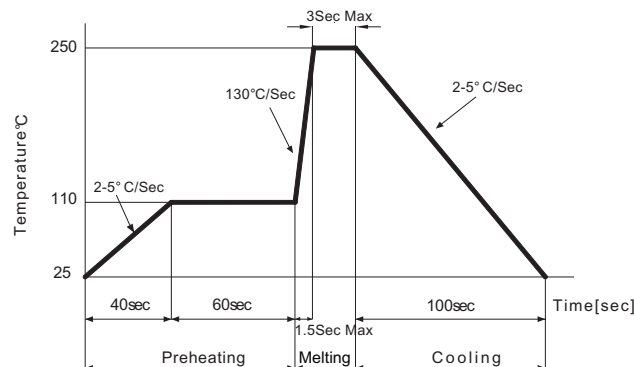
**SPECIFICATIONS**

| parameter             | conditions/description                                                                 | min | typ   | max | units |
|-----------------------|----------------------------------------------------------------------------------------|-----|-------|-----|-------|
| rated voltage         |  Vo-p |     | 5.0   |     | Vo-p  |
| operating voltage     |                                                                                        | 3.0 |       | 7.0 | Vo-p  |
| current consumption   | at rated voltage, 2,048 Hz, ½ duty square wave                                         |     |       | 65  | mA    |
| rated frequency       |                                                                                        |     | 2,048 |     | Hz    |
| sound pressure level  | at 10 cm, rated voltage, 2,048 Hz, ½ duty square wave                                  | 85  | 90    |     | dBA   |
| coil resistance       |                                                                                        | 25  | 30    | 35  | Ω     |
| dimensions            | Ø16.0 x 12.0                                                                           |     |       |     | mm    |
| weight                |                                                                                        |     |       | 4.6 | g     |
| material              | PPD (black)                                                                            |     |       |     |       |
| terminal              | pins (tin plating)                                                                     |     |       |     |       |
| operating temperature |                                                                                        | -35 |       | 80  | °C    |
| storage temperature   |                                                                                        | -40 |       | 85  | °C    |
| washable              | yes                                                                                    |     |       |     |       |
| RoHS                  | yes                                                                                    |     |       |     |       |

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

**SOLDERABILITY**

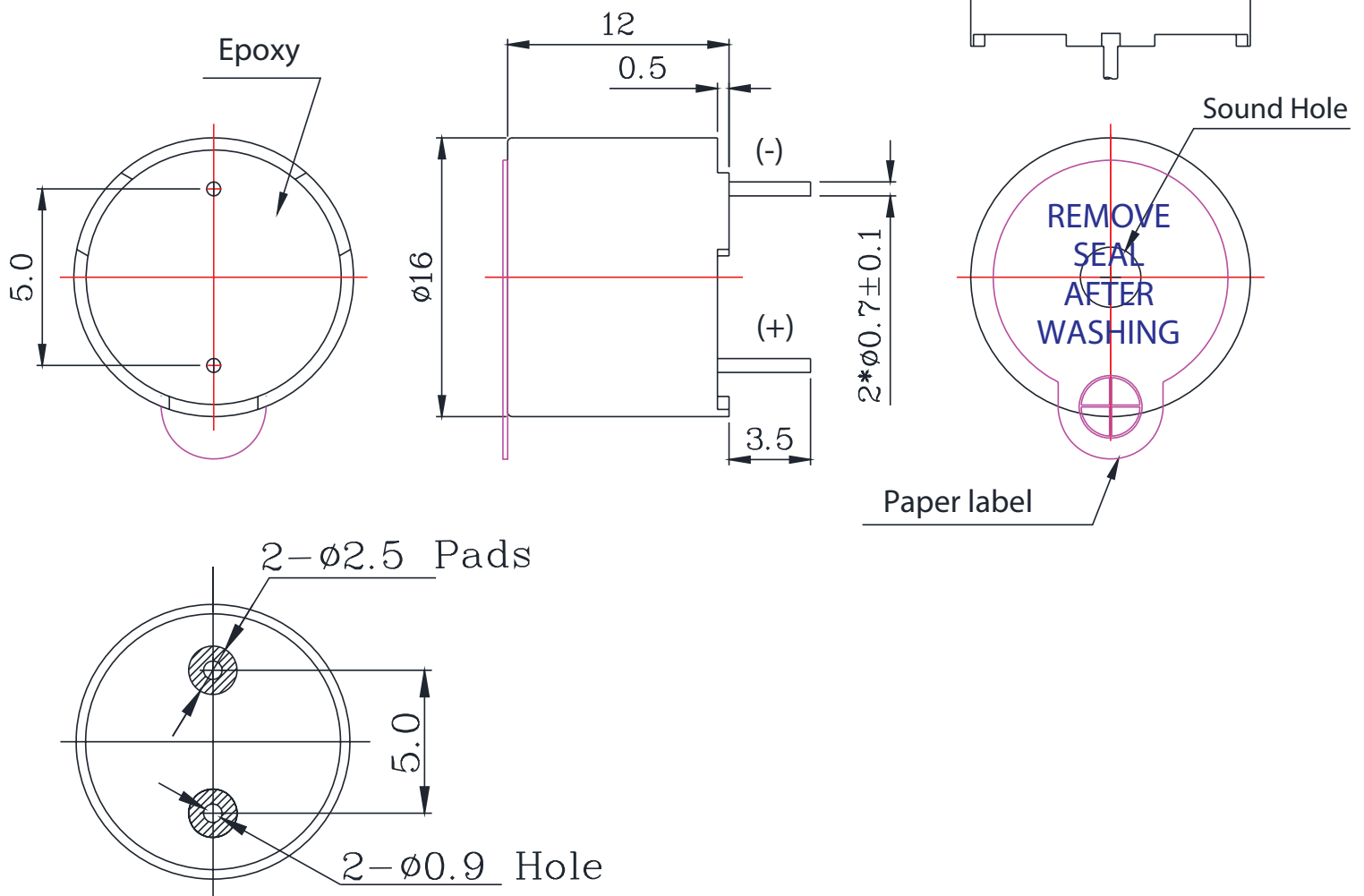
| parameter      | conditions/description                 | min | typ | max | units |
|----------------|----------------------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 3 seconds                  | 330 |     | 360 | °C    |
| wave soldering | see recommended wave soldering profile |     |     | 250 | °C    |



## MECHANICAL DRAWING

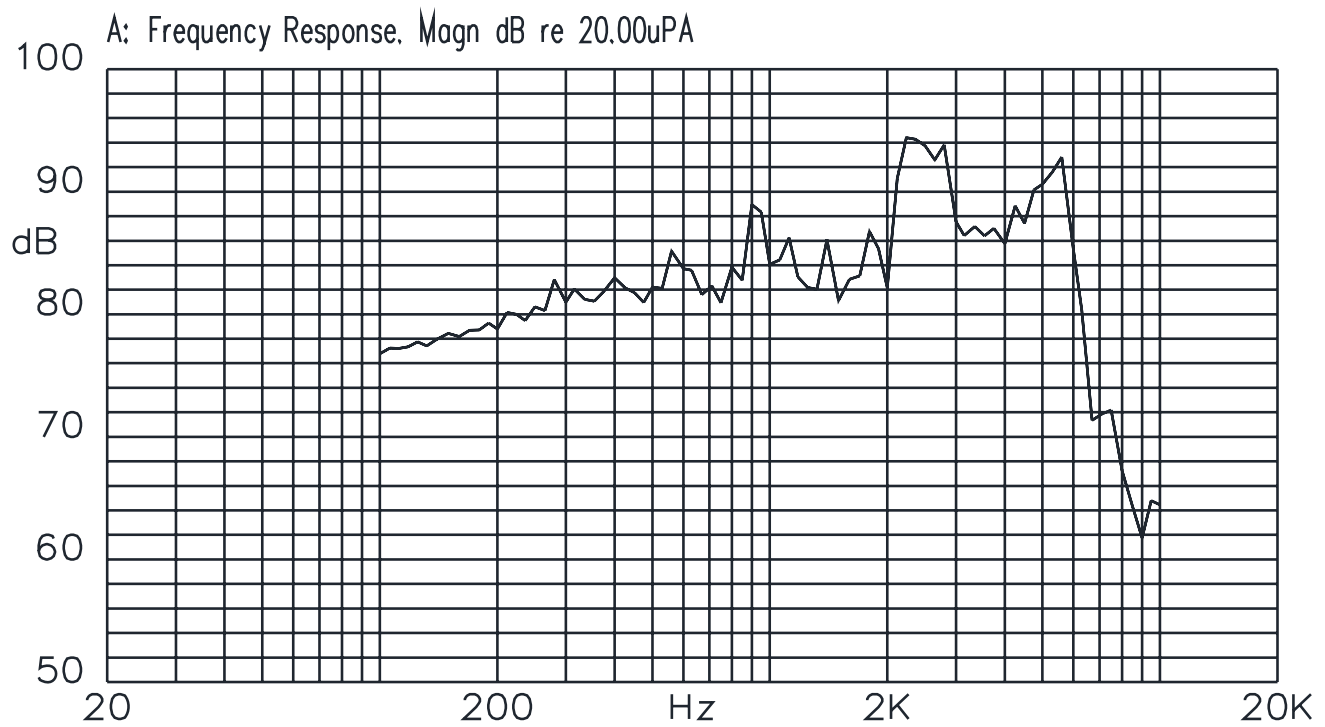
units: mm  
tolerance:  $\pm 0.5$  mm

Laser Print ☐ ☐ ☐ ☐  
Week Year

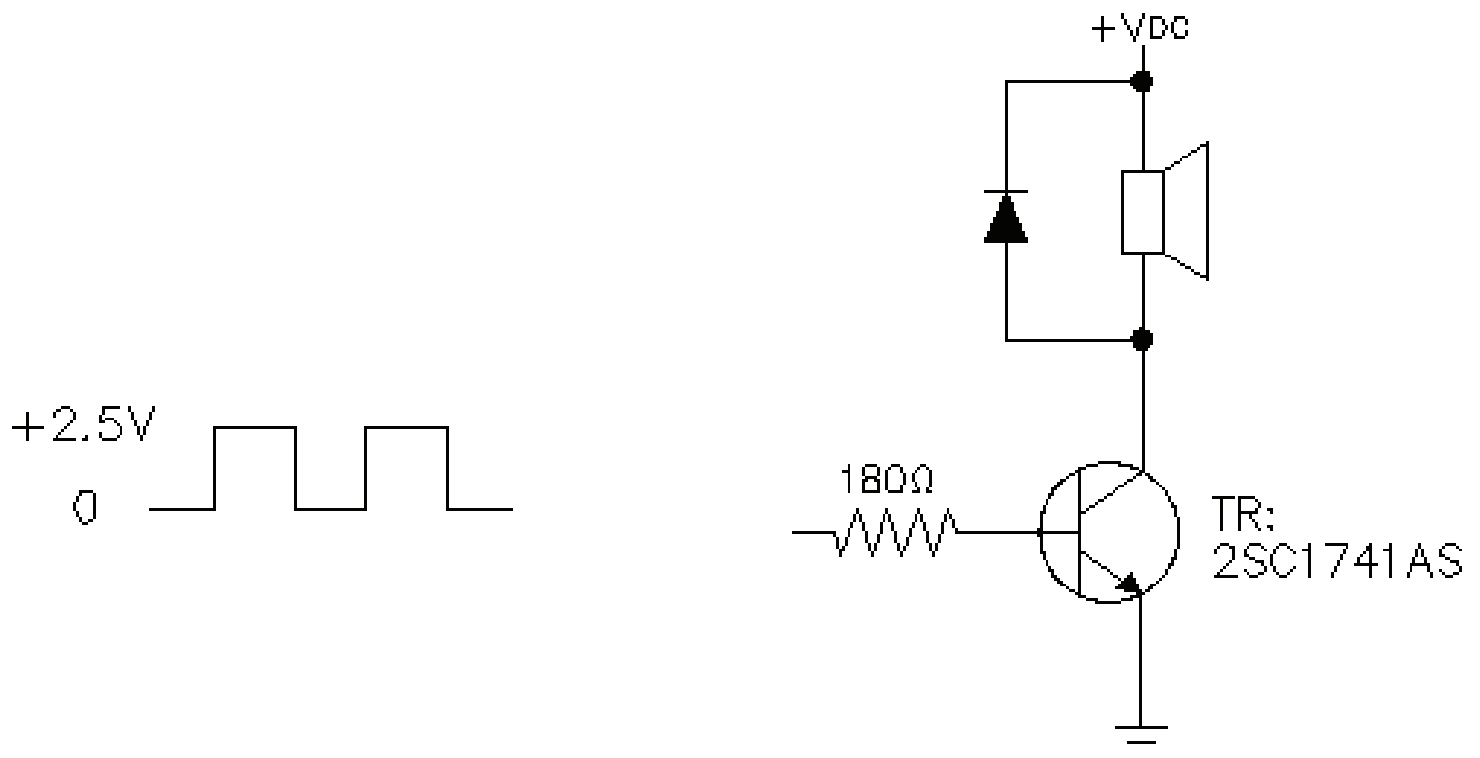


Recommended PCB Layout  
Top View

## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT



## REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 05/01/2024 |
| 1.01 | 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.

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