

**MODEL:** CEM-1201(42) | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- through hole
- 1.5 V rated
- externally driven

**SPECIFICATIONS**

| parameter             | conditions/description                                                            | min  | typ   | max  | units |
|-----------------------|-----------------------------------------------------------------------------------|------|-------|------|-------|
| rated voltage         |  |      | 1.5   |      | Vo-p  |
| operating voltage     |                                                                                   | 1.0  |       | 2.0  | Vo-p  |
| current consumption   | at rated voltage, 2,048 Hz square wave, ½ duty                                    |      |       | 20   | mA    |
| rated frequency       |                                                                                   |      | 2,048 |      | Hz    |
| sound pressure level  | at 10 cm (A-weight), rated voltage, 2,048 Hz square wave, ½ duty                  | 85   | 90    |      | dBA   |
| coil resistance       |                                                                                   | 35.7 | 42.0  | 48.3 | Ω     |
| dimensions            | Ø12.0 x 8.5                                                                       |      |       |      | mm    |
| weight                |                                                                                   |      | 1.4   |      | g     |
| material              | PPD (black)                                                                       |      |       |      |       |
| terminal              | pin type (Au plating)                                                             |      |       |      |       |
| operating temperature |                                                                                   | -20  |       | 60   | °C    |
| storage temperature   |                                                                                   | -30  |       | 70   | °C    |
| RoHS                  | yes                                                                               |      |       |      |       |

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

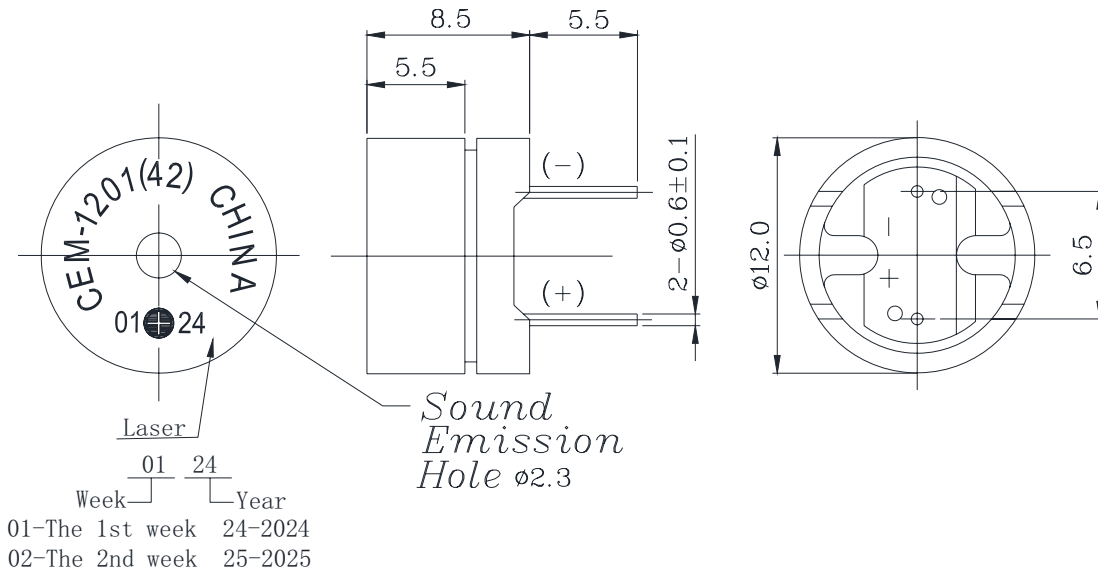
**SOLDERABILITY**

| parameter                   | conditions/description | min | typ | max | units |
|-----------------------------|------------------------|-----|-----|-----|-------|
| hand soldering <sup>2</sup> | for maximum 2 seconds  | 330 |     | 380 | °C    |

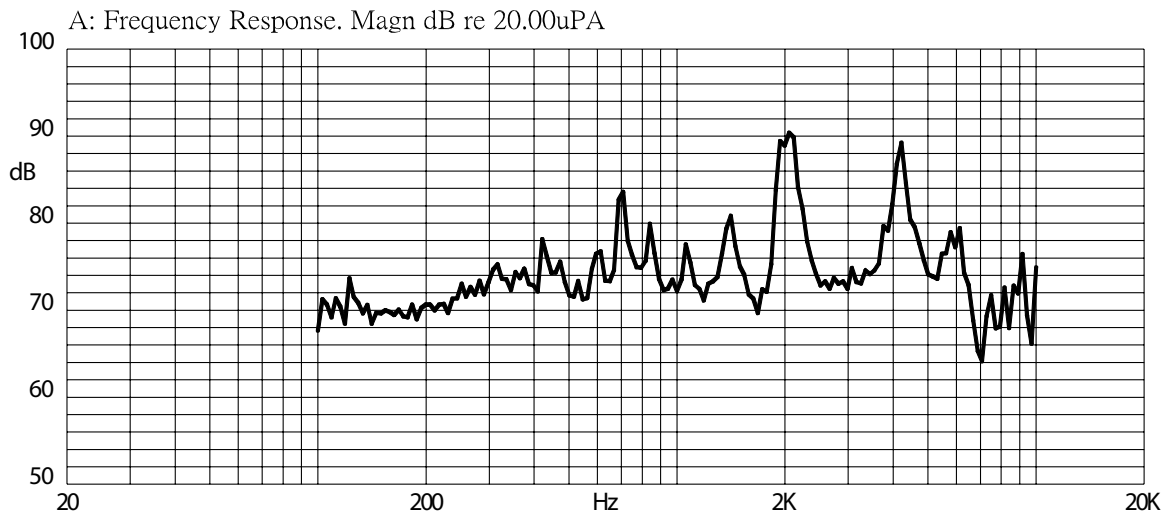
Notes: 2. Not recommended for wave soldering

## MECHANICAL DRAWING

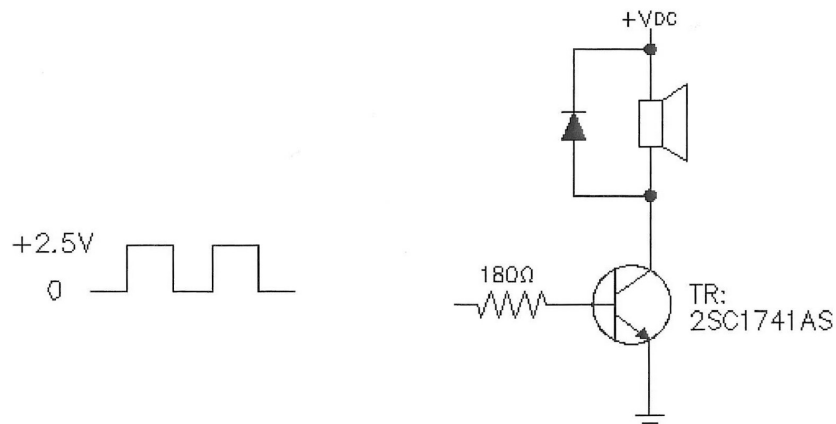
units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT



## REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 09/06/2006 |
| 1.01 | brand update                      | 12/20/2019 |
| 1.02 | logo, datasheet style update      | 08/05/2022 |
| 1.03 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.04 | changed to laser print marking    | 01/29/2025 |

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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