


**MODEL:** CEM-1212S | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- through hole
- 12 V rated
- externally driven

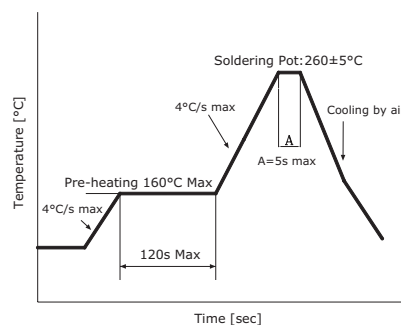
**SPECIFICATIONS**

| parameter             | conditions/description                                                                 | min | typ   | max  | units |
|-----------------------|----------------------------------------------------------------------------------------|-----|-------|------|-------|
| rated voltage         |  Vo-p |     | 12.0  |      | Vo-p  |
| operating voltage     |                                                                                        | 6.0 |       | 16.0 | Vo-p  |
| current consumption   | at rated voltage, 2,400 Hz square wave, ½ duty                                         |     |       | 40   | mA    |
| rated frequency       |                                                                                        |     | 2,400 |      | Hz    |
| sound pressure level  | at 10 cm [A-weight], rated voltage, 2,400 Hz square wave, ½ duty                       | 85  | 92    |      | dBA   |
| coil resistance       |                                                                                        | 119 | 140   | 161  | Ω     |
| dimensions            | Ø12.0 x 9.5                                                                            |     |       |      | mm    |
| weight                |                                                                                        |     | 1.6   |      | g     |
| material              | PBT (black)                                                                            |     |       |      |       |
| terminal              | pin type [Au plating]                                                                  |     |       |      |       |
| operating temperature |                                                                                        | -20 |       | 60   | °C    |
| storage temperature   |                                                                                        | -30 |       | 70   | °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.

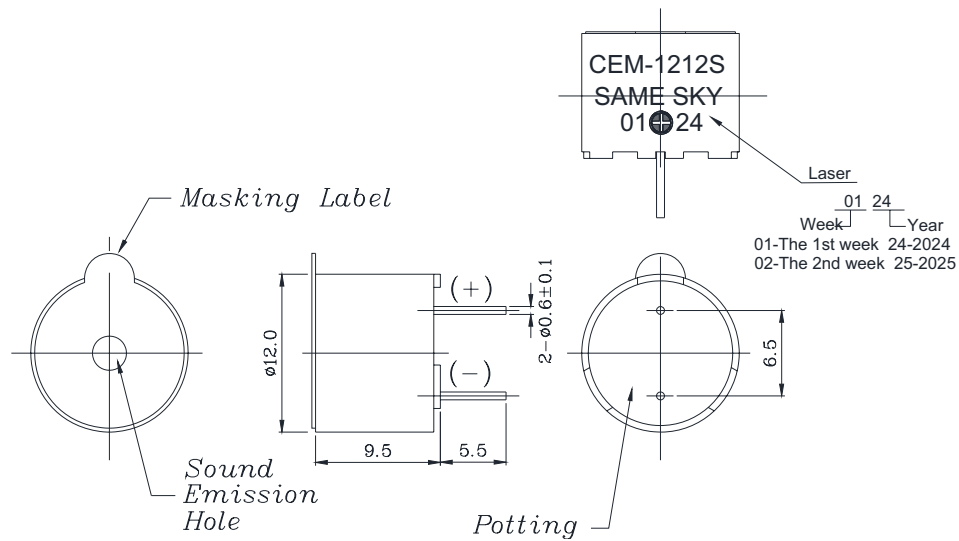
**SOLDERABILITY**

| parameter      | conditions/description  | min | typ | max | units |
|----------------|-------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 2 seconds   | 330 |     | 380 | °C    |
| wave soldering | see wave solder profile | 255 | 260 | 265 | °C    |

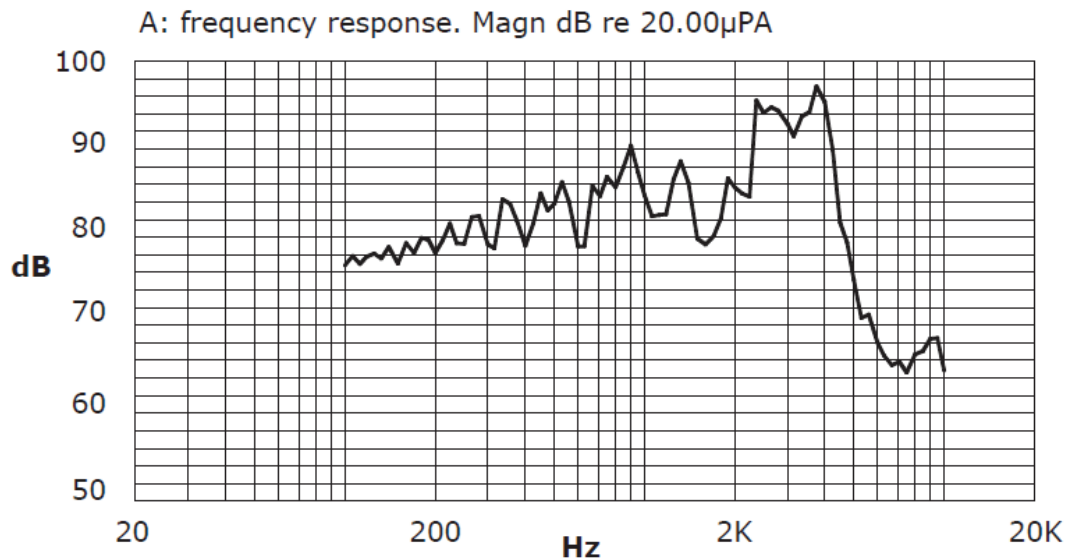


## MECHANICAL DRAWING

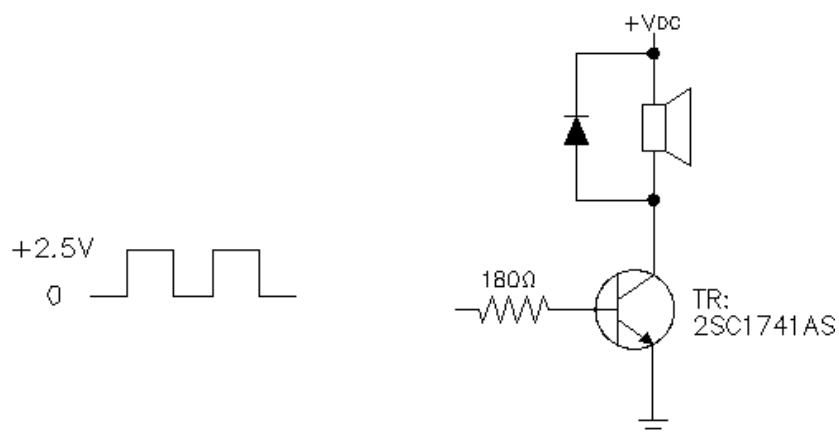
units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/12/2006 |
| 1.01 | brand update                      | 01/02/2020 |
| 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    | 02/11/2025 |

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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