

**MODEL:** CEM-1203(42) | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- through hole
- 3.5 V rated
- externally driven

**SPECIFICATIONS**

| parameter             | conditions/description                                                            | min  | typ   | max  | units |
|-----------------------|-----------------------------------------------------------------------------------|------|-------|------|-------|
| rated voltage         |  |      | 3.5   |      | Vo-p  |
| operating voltage     |                                                                                   | 3.0  |       | 5.0  | Vo-p  |
| current consumption   | at rated voltage, 2,048 Hz square wave, ½ duty                                    |      |       | 35   | mA    |
| rated frequency       |                                                                                   |      | 2,048 |      | Hz    |
| sound pressure level  | at 10 cm (A-weight), rated voltage, 2,048 Hz square wave, ½ duty                  | 85   | 95    |      | dBA   |
| coil resistance       |                                                                                   | 36.0 | 42.0  | 48.0 | Ω     |
| dimensions            | Ø12.0 x 8.5                                                                       |      |       |      | mm    |
| weight                |                                                                                   |      | 1.5   |      | g     |
| material              | PPD                                                                               |      |       |      |       |
| 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.

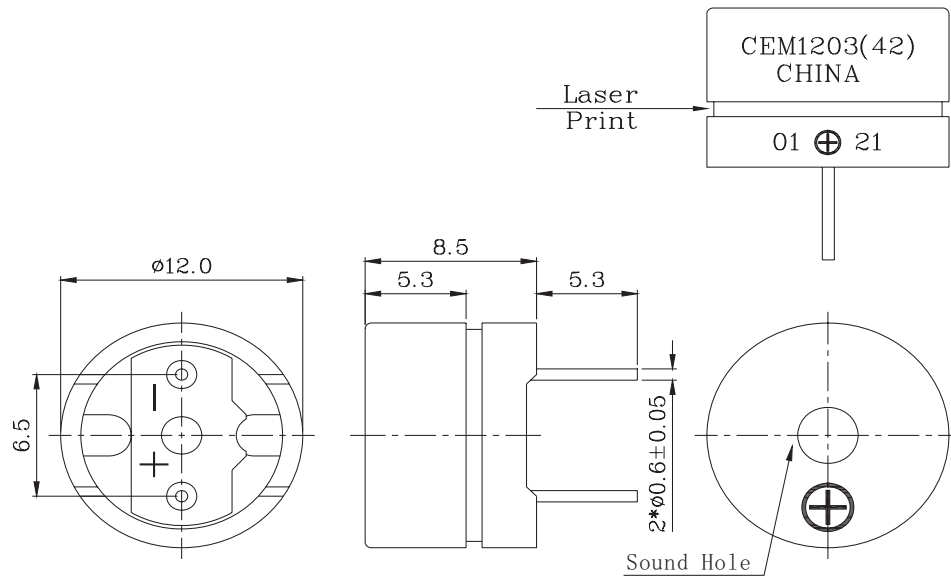
**SOLDERABILITY**

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

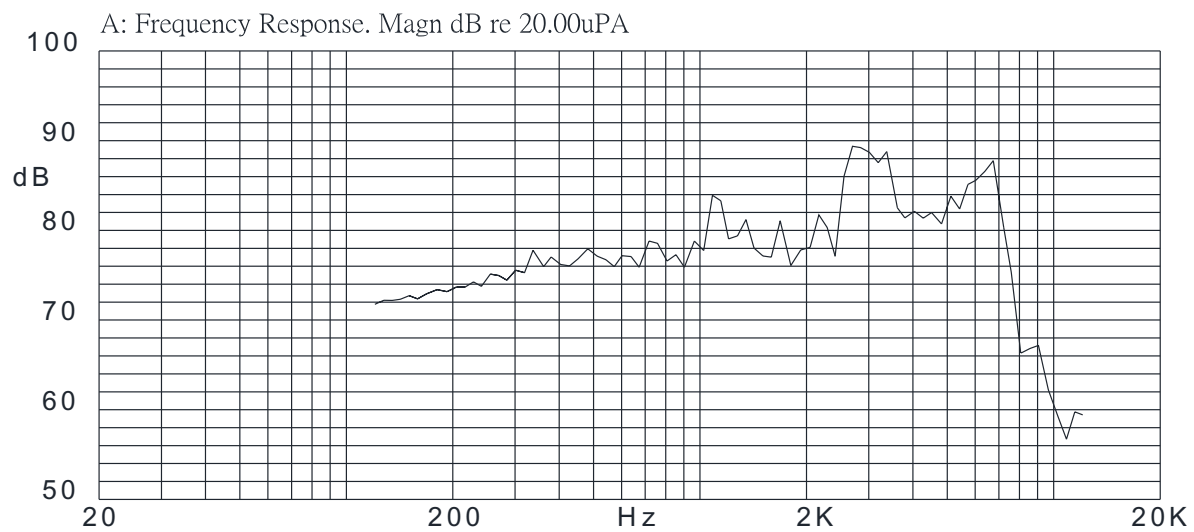
Notes: 2. Not recommended for wave soldering

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



## FREQUENCY RESPONSE CURVE



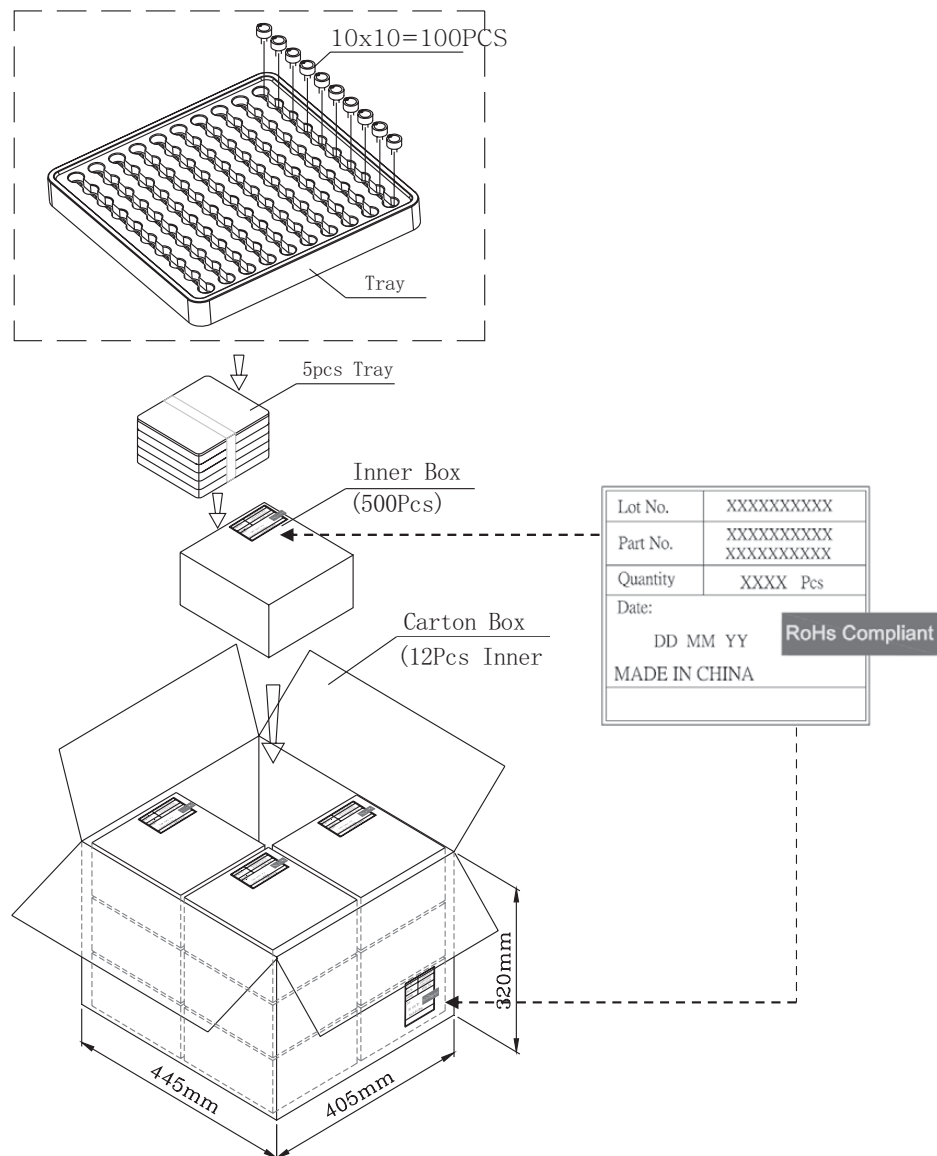
## APPLICATION CIRCUIT



## PACKAGING

units: mm

Tray Size: 184 x 180 x 23 mm  
Carton Box Size: 445 x 405 x 320 mm  
Tray QTY: 100 pcs per box  
Carton Box QTY: 6,000 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 08/11/2006 |
| 1.01 | brand update                 | 12/20/2019 |
| 1.02 | modified housing             | 09/15/2021 |
| 1.03 | logo, datasheet style update | 08/05/2022 |

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



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