CUI Devices is now Same Sky! Learn More



# MODEL: CMT-0503-75-SMT-TR | DESCRIPTION: MAGNETIC BUZZER TRANSDUCER

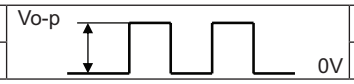
## FEATURES

- surface mount
- SPL 75 dB
- magnetic
- externally driven



RoHS

## SPECIFICATIONS

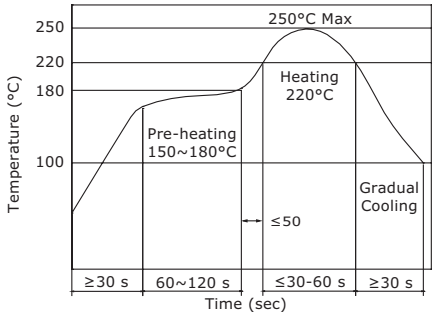
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated voltage |   | | 3.0 | | Vo-p |
| operating voltage | | 2.0 | | 5.0 | Vo-p |
| current consumption | at rated voltage, 4,000 Hz, ½ duty square wave | | | 100 | mA |
| rated frequency | | | 4,000 | | Hz |
| sound pressure level | at 10 cm, rated voltage, 4,000 Hz, ½ duty square wave | 75 | | | dB |
| coil resistance | | 10 | 12 | 14 | Ω |
| dimensions | 5 x 5 x 3 | | | | mm |
| weight | | | 0.3 | | g |
| material | LCP | | | | |
| terminal | surface mount (brass) | | | | |
| operating temperature | | -40 | | 85 | °C |
| storage temperature | | -40 | | 85 | °C |
| RoHS | yes | | | | |

Notes: 1. All specifications measured at 25±3°C, humidity at 60~70%, under 86~106 kPa pressure, unless otherwise noted.

## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity <60% | | | 25 | °C |
| reflow soldering[2] | see recommended reflow soldering profile | | | 250 | °C |
| drying conditions[3] | bake at 40°C for 24 hours | | | | |

Note: 2. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
3. When out of packaging for more than 48 hours.

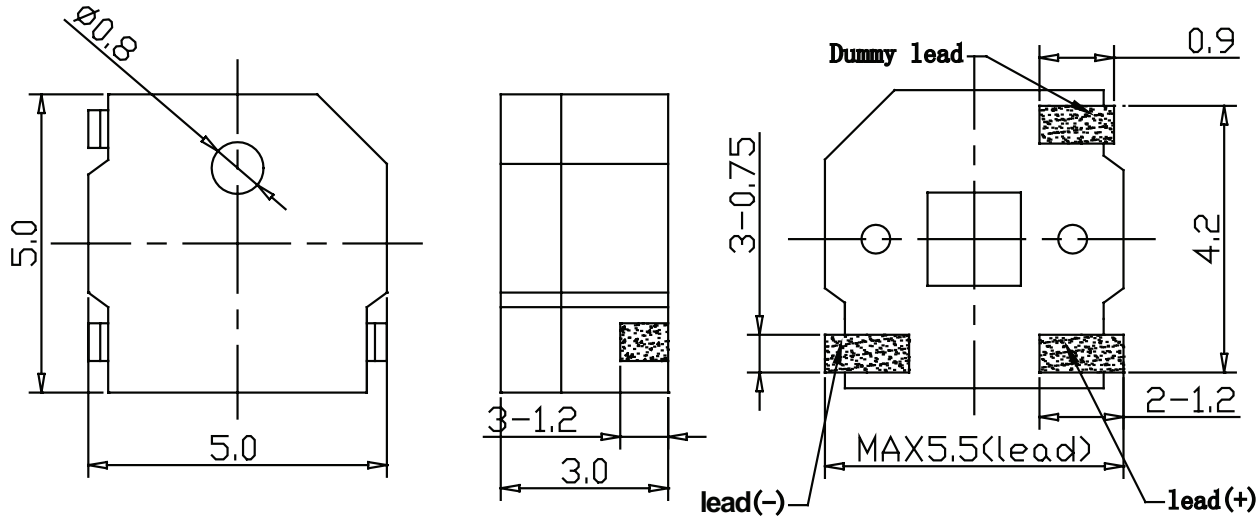


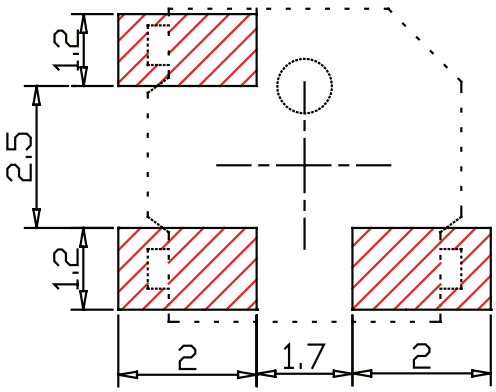



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## MECHANICAL DRAWING

units: mm
tolerance: ±0.5 mm




Recommended PCB Layout
Top View

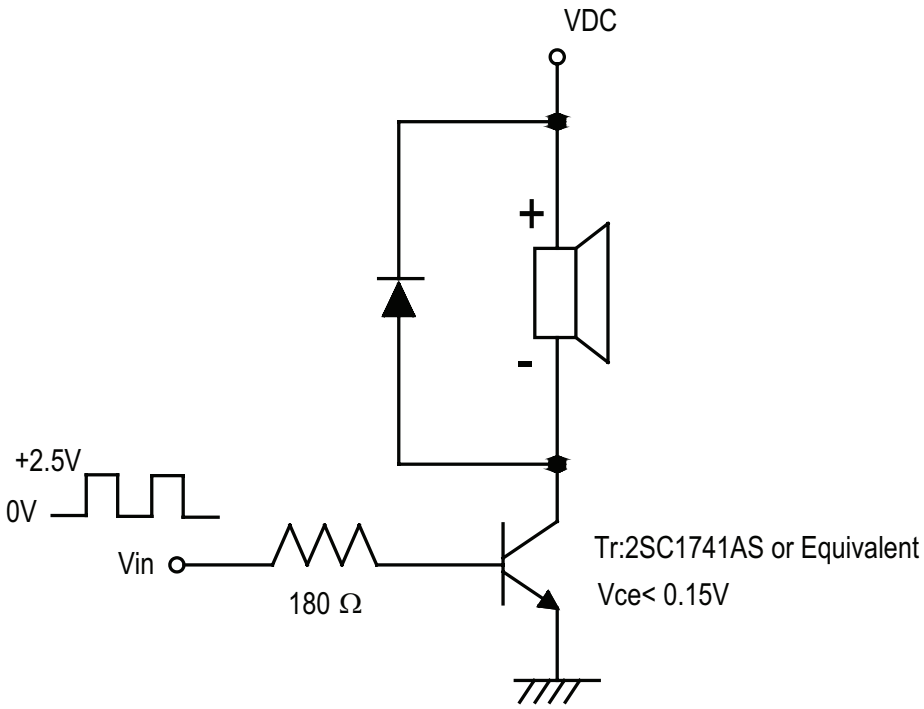


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## FREQUENCY RESPONSE CURVE




## APPLICATION CIRCUIT



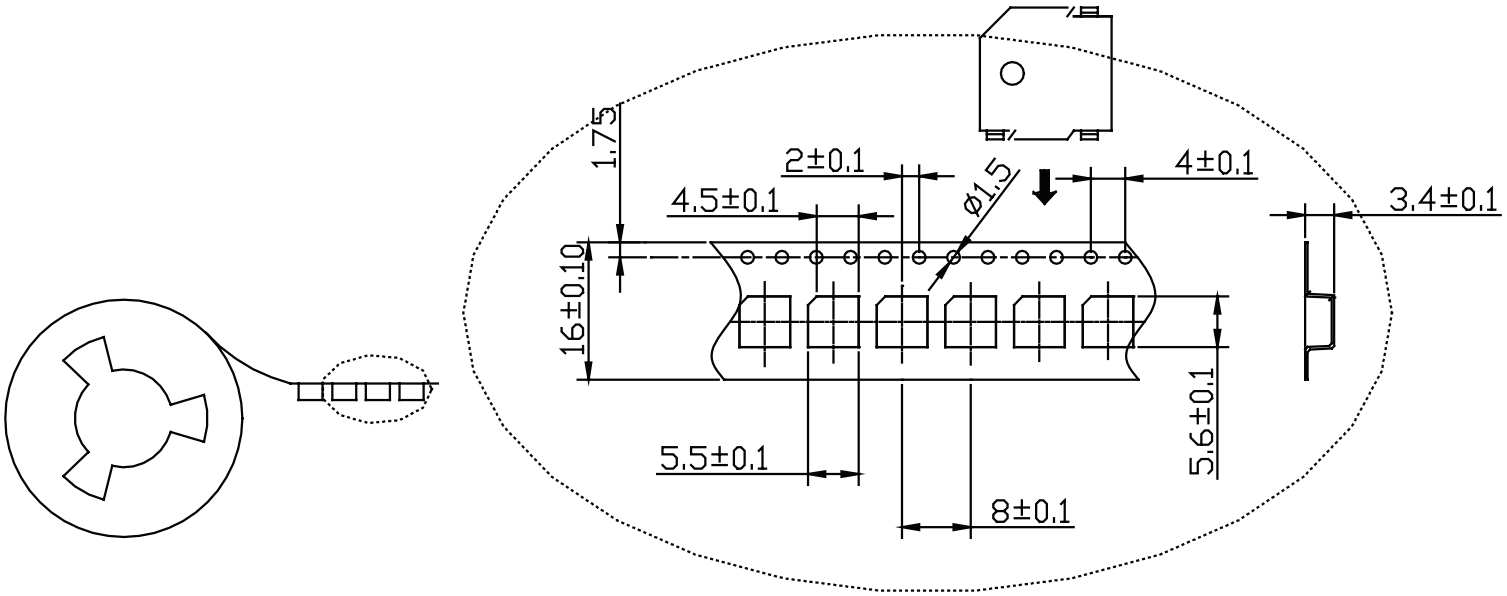



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## PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 2,000 pcs per reel
Carton Size: 350 x 350 x 205 mm
Carton QTY: 10,000 pcs per carton






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## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 07/15/2019 |
| 1.01 | brand update | 12/18/2019 |
| 1.02 | logo, datasheet style update | 08/05/2022 |
| 1.03 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.04 | modified design | 11/03/2025 |
| 1.05 | updated packaging drawings, solder profile correction | 04/17/2026 |

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

same sky

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