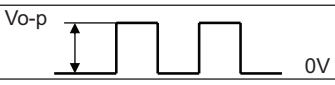


**MODEL:** CMT-5023S-SMT-TR | **DESCRIPTION:** MAGNETIC BUZZER TRANSDUCER**FEATURES**

- 5 x 5 x 2 mm
- SMT
- rated frequency of 4000 Hz

**SPECIFICATIONS**

| parameter             | conditions/description                                                                 | min | typ   | max | units |
|-----------------------|----------------------------------------------------------------------------------------|-----|-------|-----|-------|
| rated voltage         |  Vo-p |     | 3.0   |     | Vo-p  |
| operating voltage     |                                                                                        | 2.0 |       | 4.0 | Vo-p  |
| current consumption   | at rated voltage, 4,000 Hz square wave, ½ duty                                         |     |       | 110 | mA    |
| rated frequency       |                                                                                        |     | 4,000 |     | Hz    |
| sound pressure level  | at 10 cm (A-weight), rated voltage, 4,000 Hz square wave, ½ duty                       | 80  |       |     | dBA   |
| coil resistance       |                                                                                        | 9   | 12    | 15  | Ω     |
| dimensions            | 5.0 x 5.0 x 2.0                                                                        |     |       |     | mm    |
| weight                |                                                                                        |     | 0.35  |     | g     |
| material              | LCP                                                                                    |     |       |     |       |
| terminal              | SMT type (Sn plating)                                                                  |     |       |     |       |
| operating temperature |                                                                                        | -30 |       | 70  | °C    |
| storage temperature   |                                                                                        | -40 |       | 85  | °C    |
| RoHS                  | yes                                                                                    |     |       |     |       |

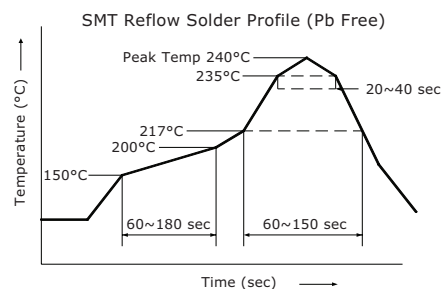
Notes: 1. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

**SOLDERABILITY**

| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <40%                |     |     | 25  | °C    |
| reflow soldering <sup>2</sup>  | see recommended reflow soldering profile |     |     | 240 | °C    |
| drying conditions <sup>3</sup> | bake at 40°C for 24 hours                |     |     |     |       |

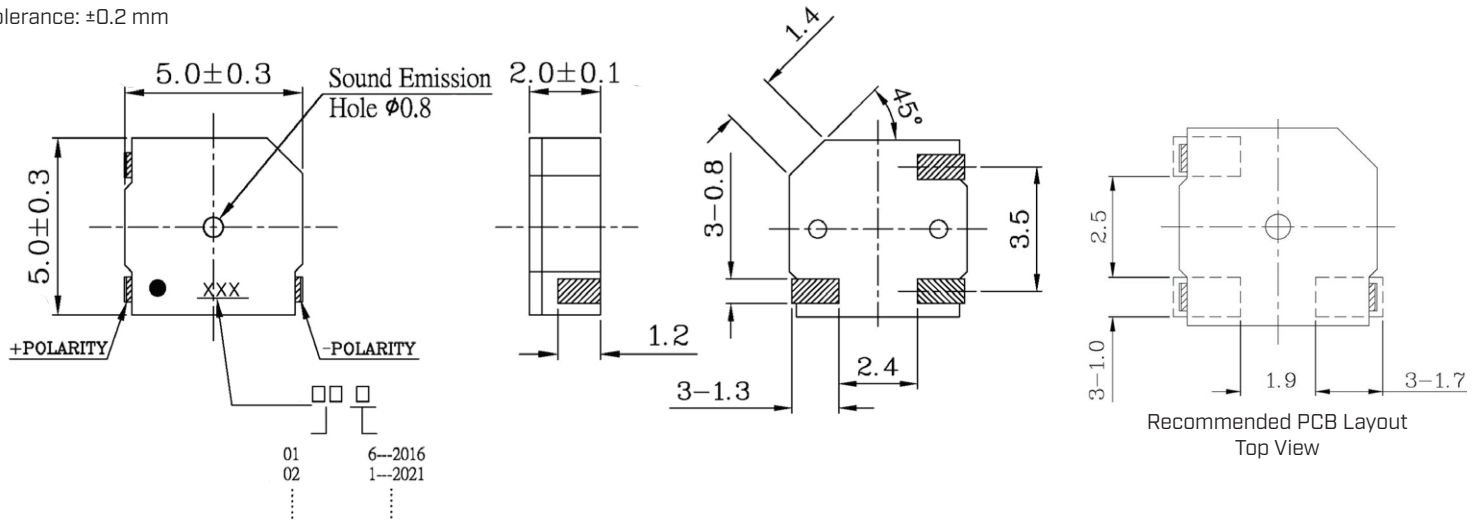
Note: 2. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

3. When out of packaging for more than 48 hours.

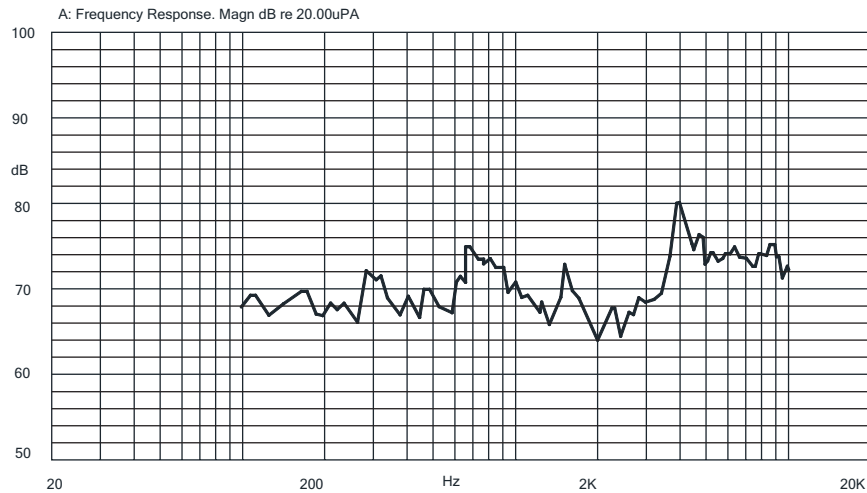


## MECHANICAL DRAWING

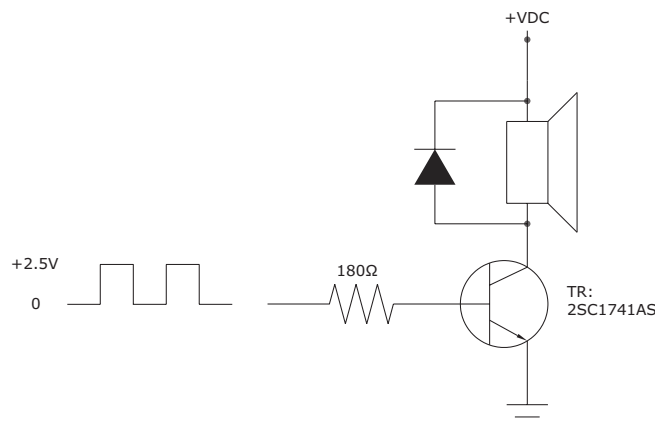
units: mm  
tolerance:  $\pm 0.2$  mm



## FREQUENCY RESPONSE CURVE



## MEASUREMENT METHOD



## PACKAGING

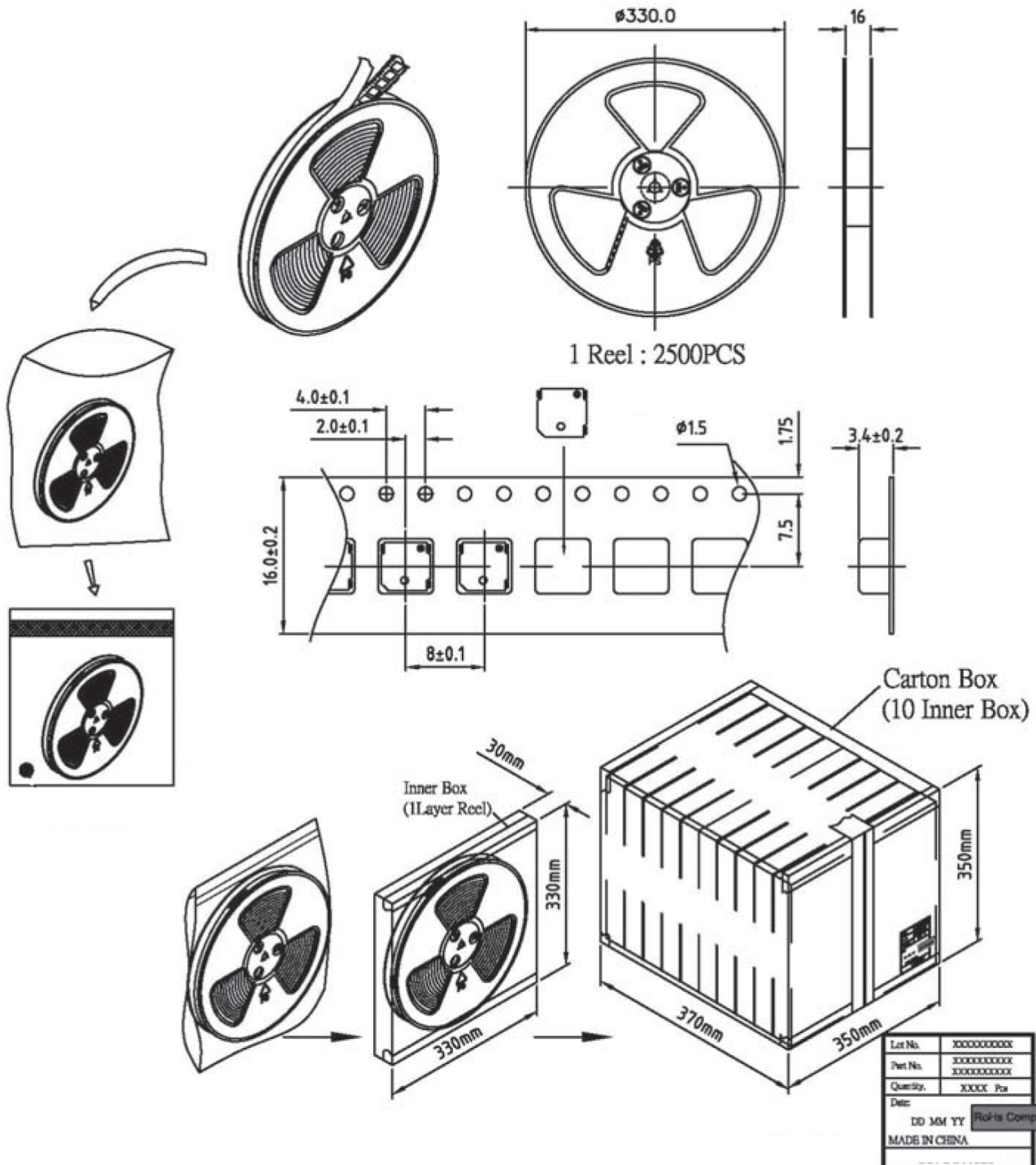
units: mm

Reel Size:  $\varnothing 330$  mm

Carton Size: 370 x 350 x 350 mm

Reel QTY: 2,500 pcs per reel

Carton QTY: 25,000 pcs per carton



Vacuum bag contains desiccant

REVISION HISTORY

| rev. | description                         | date       |
|------|-------------------------------------|------------|
| 1.0  | initial release                     | 03/28/2016 |
| 1.01 | added storage and drying conditions | 07/29/2019 |
| 1.02 | brand update                        | 11/22/2019 |
| 1.03 | updated drawing                     | 08/12/2020 |
| 1.04 | updated packaging                   | 10/23/2020 |
| 1.05 | logo, datasheet style update        | 08/05/2022 |
| 1.06 | 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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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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