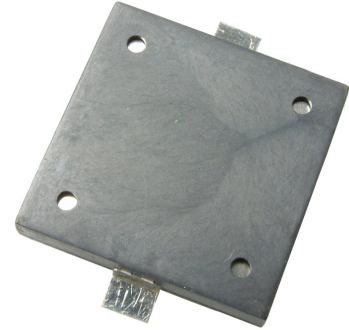


**MODEL:** CMT-1603-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- low current
- low profile
- externally driven

**SPECIFICATIONS**

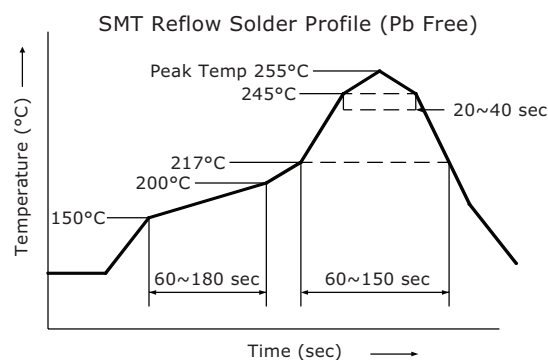
| parameter              | conditions/description                 | min   | typ    | max    | units |
|------------------------|----------------------------------------|-------|--------|--------|-------|
| operating voltage      |                                        |       |        | 25     | Vp-p  |
| current consumption    | at 3 Vp-p, 4,000 Hz square wave        |       |        | 3      | mA    |
| rated frequency        |                                        |       | 4,000  |        | Hz    |
| sound pressure level   | at 10 cm, 3 Vp-p, 4,000 Hz square wave | 70    |        |        | dB    |
| electrostatic capacity | at 1 kHz/1 V                           | 9,800 | 14,000 | 18,200 | pF    |
| dimensions             | 16 x 16 x 2.6                          |       |        |        | mm    |
| weight                 |                                        |       |        | 0.96   | g     |
| material               | LCP (white)                            |       |        |        |       |
| terminal               | SMT type [Au 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**

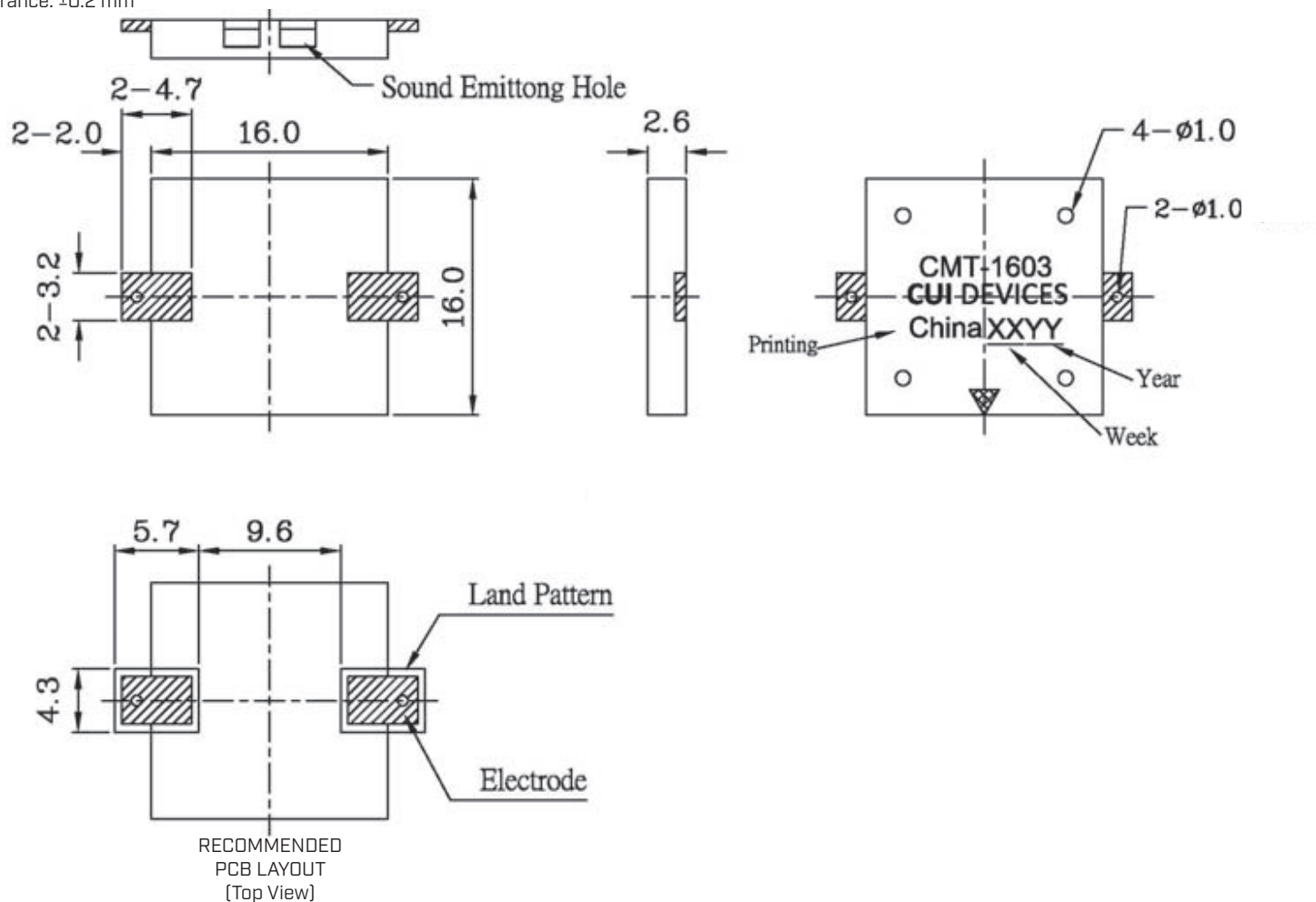
| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <60%                |     |     | 30  | °C    |
| reflow soldering <sup>2</sup>  | see recommended reflow soldering profile |     |     | 255 | °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.

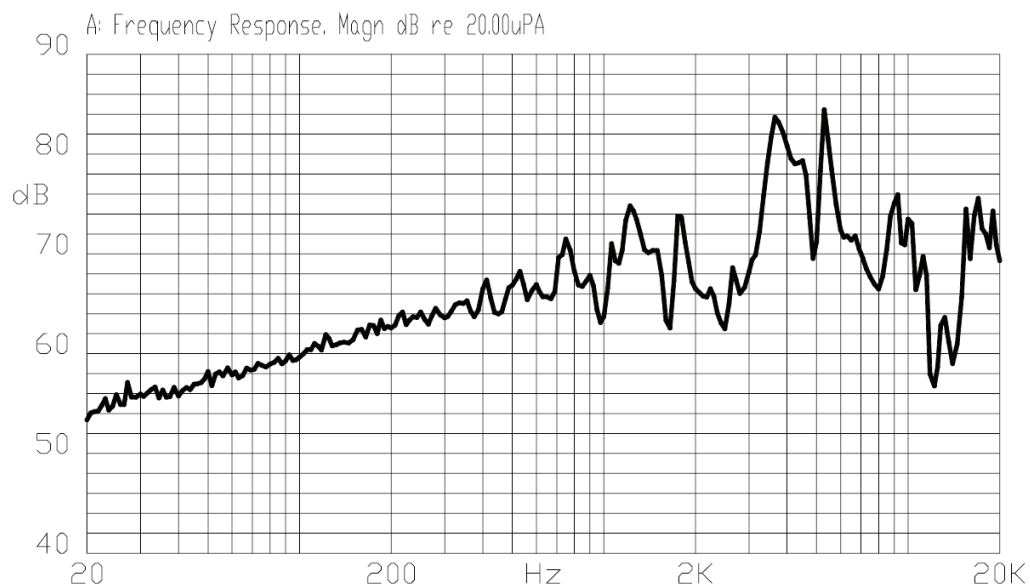


## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm



## FREQUENCY RESPONSE CURVE



## PACKAGING

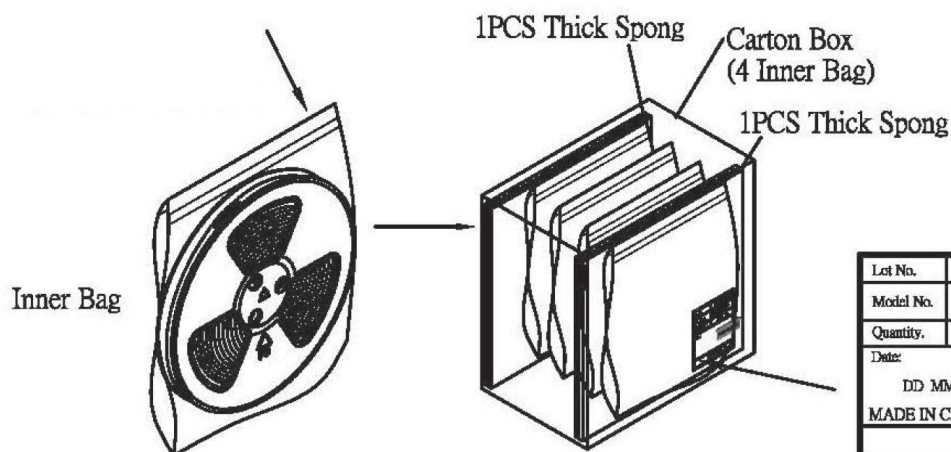
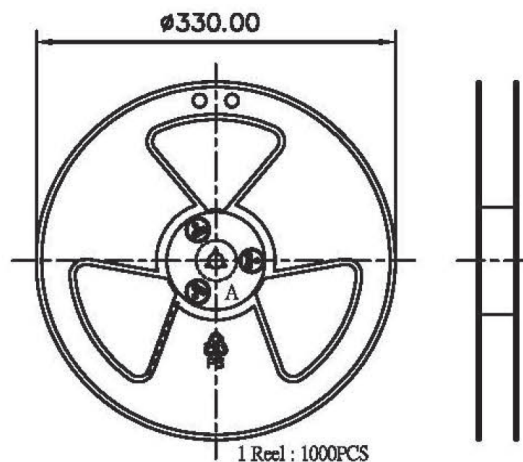
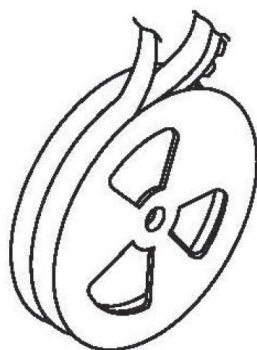
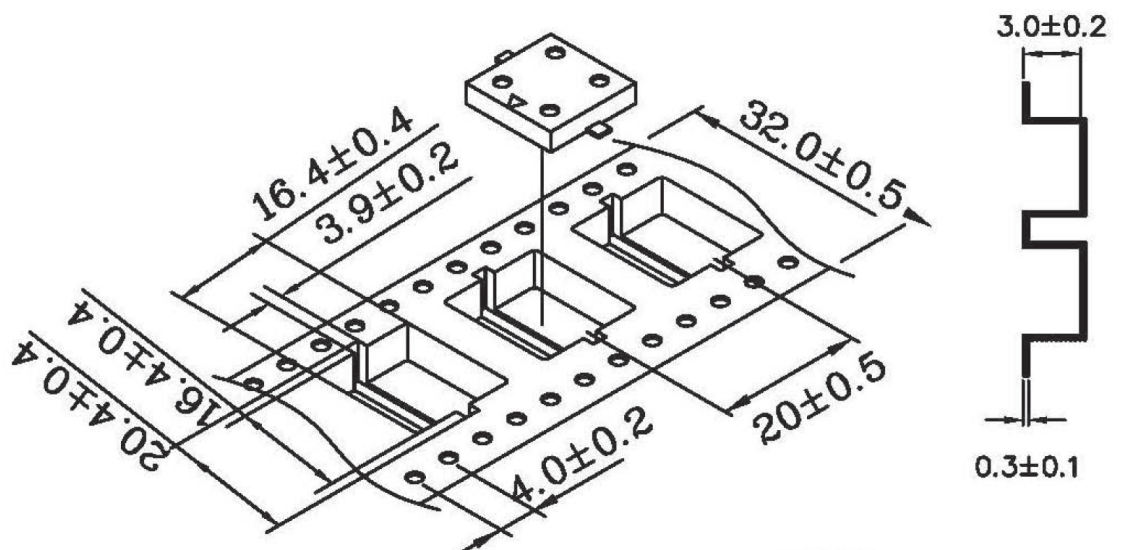
units: mm

Reel Size:  $\varnothing 330$  mm

Carton Size: 340 x 170 x 340 mm

Reel QTY: 1,000 pcs per reel

Carton QTY: 4,000 pcs per carton



|                |            |
|----------------|------------|
| Lot No.        | XXXXXXXXXX |
| Model No.      | XXXXXXXXXX |
| Quantity.      | XXXX Pcs   |
| Date:          | DD MM YY   |
| MADE IN CHINA  |            |
| RoHS Compliant |            |

Vacuum bag contains desiccant

## REVISION HISTORY

| rev. | description                                                              | date       |
|------|--------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                          | 06/03/2005 |
| 1.01 | applied new template                                                     | 09/19/2006 |
| 1.02 | updated part number, added TR package option, applied new spec template  | 05/13/2013 |
| 1.03 | updated pin plating                                                      | 05/24/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details | 07/25/2019 |
| 1.05 | brand update                                                             | 01/06/2020 |
| 1.06 | updated packaging                                                        | 10/22/2020 |
| 1.07 | 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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