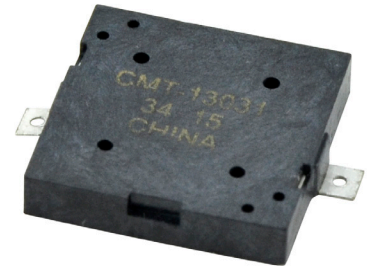


**MODEL:** CMT-13031-SMT-TR | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER**FEATURES**

- low current
- low profile
- externally driven

**SPECIFICATIONS**

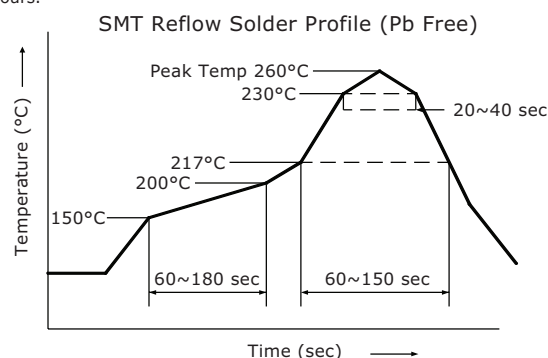
| parameter              | conditions/description                 | min    | typ    | max    | units |
|------------------------|----------------------------------------|--------|--------|--------|-------|
| operating voltage      |                                        |        |        | 25     | Vp-p  |
| current consumption    | at 5 Vp-p, 4,100 Hz square wave        |        |        | 5      | mA    |
| rated frequency        |                                        |        | 4,100  |        | Hz    |
| sound pressure level   | at 10 cm, 5 Vp-p, 4,100 Hz square wave | 70     |        |        | dB    |
| electrostatic capacity | at 1000 Hz/1 V                         | 11,200 | 16,000 | 20,800 | pF    |
| dimensions             | 12.8 x 12.8 x 2.5                      |        |        |        | mm    |
| weight                 |                                        |        |        | 0.5    | g     |
| material               | LCP (black)                            |        |        |        |       |
| 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**

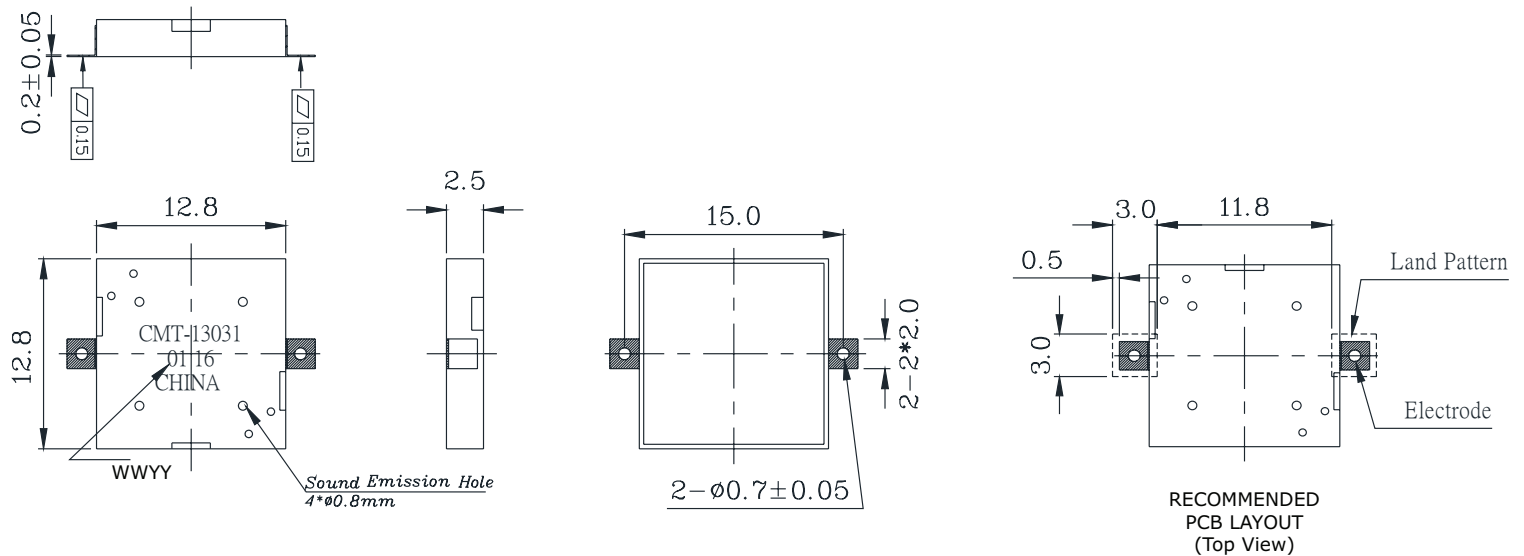
| parameter                      | conditions/description                   | min | typ | max | units |
|--------------------------------|------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <40%                |     |     | 25  | °C    |
| reflow soldering <sup>2</sup>  | see recommended reflow soldering profile |     |     | 260 | °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.

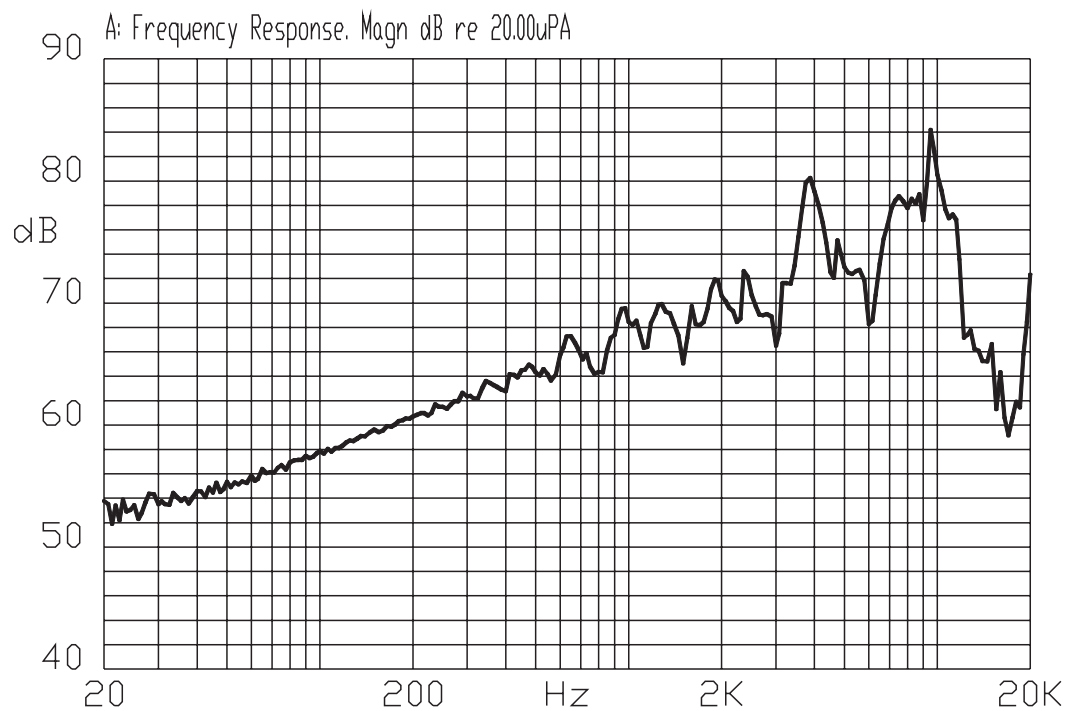


## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



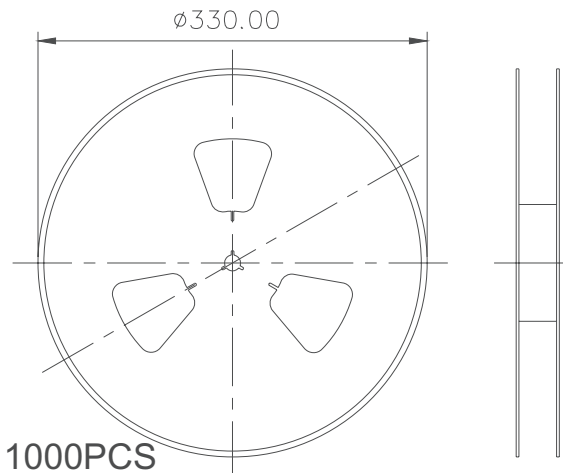
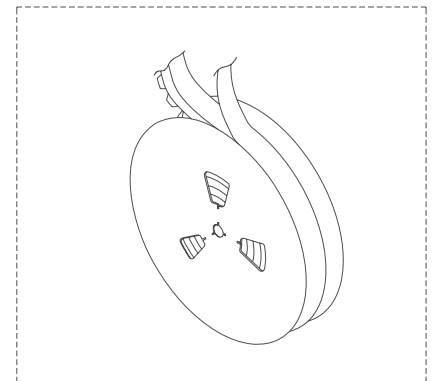
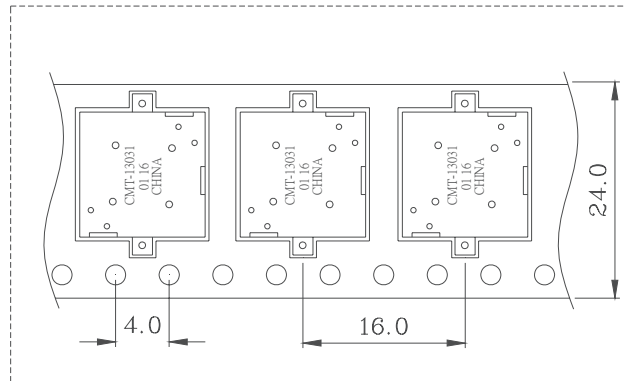
## FREQUENCY RESPONSE CURVE



## PACKAGING

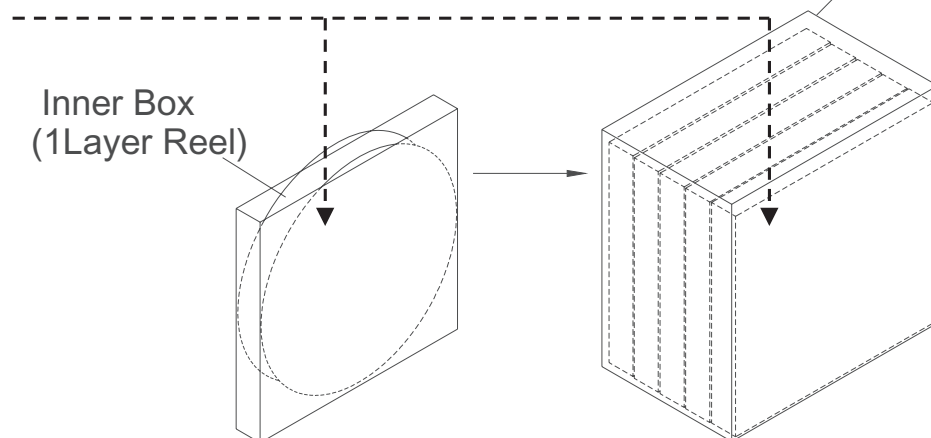
units: mm

Reel Size: Ø330 mm  
 Inner Box Size: 340 x 340 x 40 mm  
 Carton Size: 350 x 175 x 355 mm  
 Reel QTY: 1,000 pcs per reel  
 Carton QTY: 5,000 pcs per carton



1 Reel: 1000PCS

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

Inner Box  
(1 Layer Reel)Carton Box  
(5 Inner Box)

\* The label stuck on inner boxes  
 and the outer of carton.

## REVISION HISTORY

| rev. | description                                                              | date       |
|------|--------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                          | 08/19/2015 |
| 1.01 | added storage and drying conditions, and tape and reel packaging details | 07/31/2019 |
| 1.02 | brand update                                                             | 01/07/2020 |

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

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# CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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