

**MODEL:** CEP-2224 | **DESCRIPTION:** PIEZO BUZZER INDICATOR**FEATURES**

- through-hole pins
- 12 Vdc rating
- 3.4 kHz rated frequency
- low profile

**SPECIFICATIONS**

| parameter             | conditions/description  | min   | typ   | max   | units |
|-----------------------|-------------------------|-------|-------|-------|-------|
| rated voltage         |                         |       | 12    |       | Vdc   |
| operating voltage     |                         | 3     |       | 20    | Vdc   |
| current consumption   | at rated voltage        |       |       | 15    | mA    |
| rated frequency       |                         | 2,900 | 3,400 | 3,900 | Hz    |
| sound pressure level  | at 30 cm, rated voltage | 78    |       |       | dB    |
| dimensions            | Ø24.0 x 9.0             |       |       |       | mm    |
| weight                |                         |       |       | 1.2   | g     |
| material              | ABS PA-777D (black)     |       |       |       |       |
| terminal              | pin type (Sn plating)   |       |       |       |       |
| operating temperature |                         | -30   |       | 85    | °C    |
| storage temperature   |                         | -40   |       | 95    | °C    |
| RoHS                  | yes                     |       |       |       |       |

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

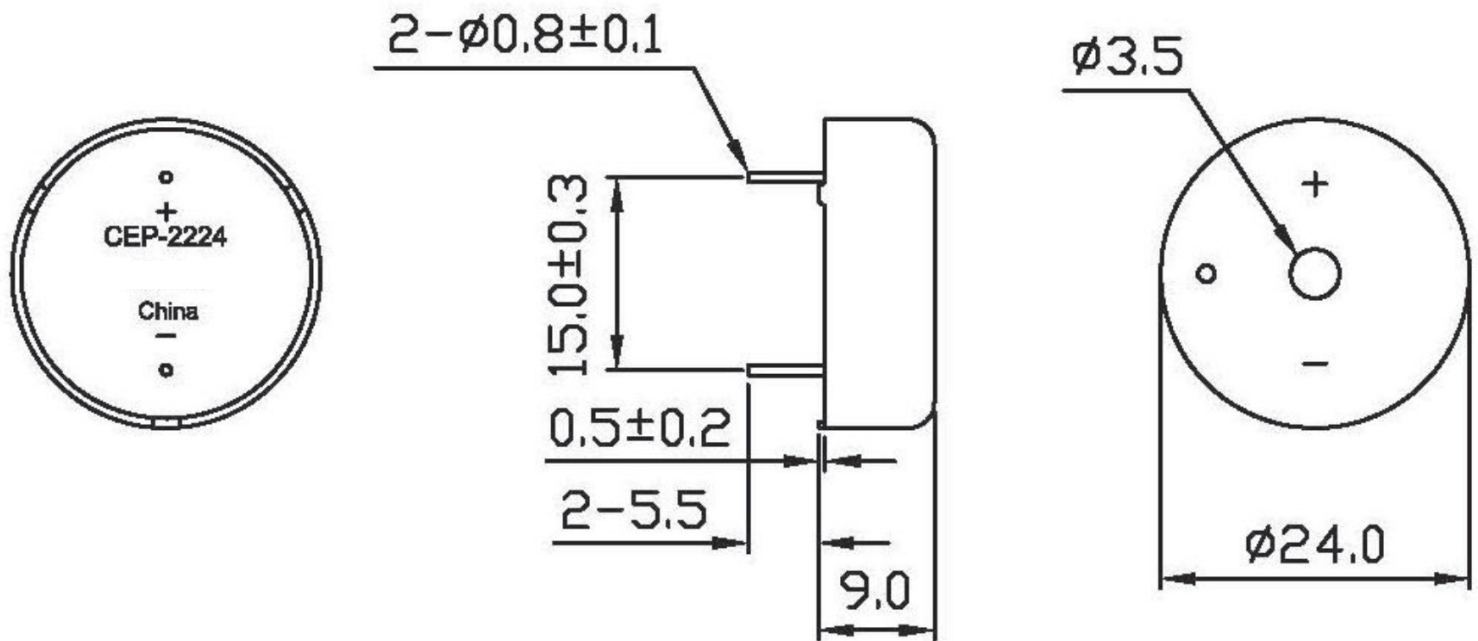
**SOLDERABILITY**

| 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

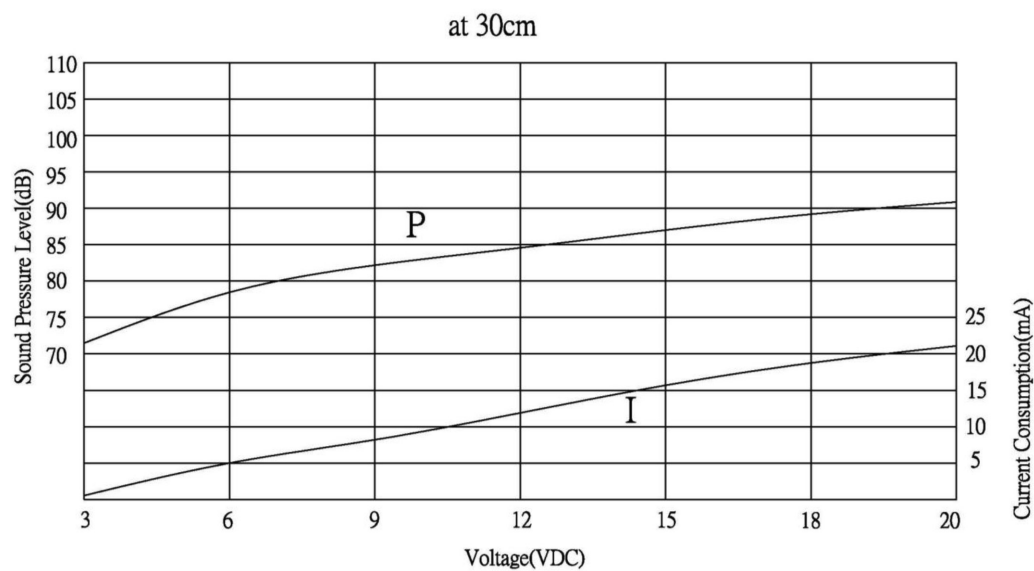
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm



## PERFORMANCE CURVES

P: Voltage vs. Sound Pressure Level  
I: Voltage vs. Current Consumption



## PACKAGING

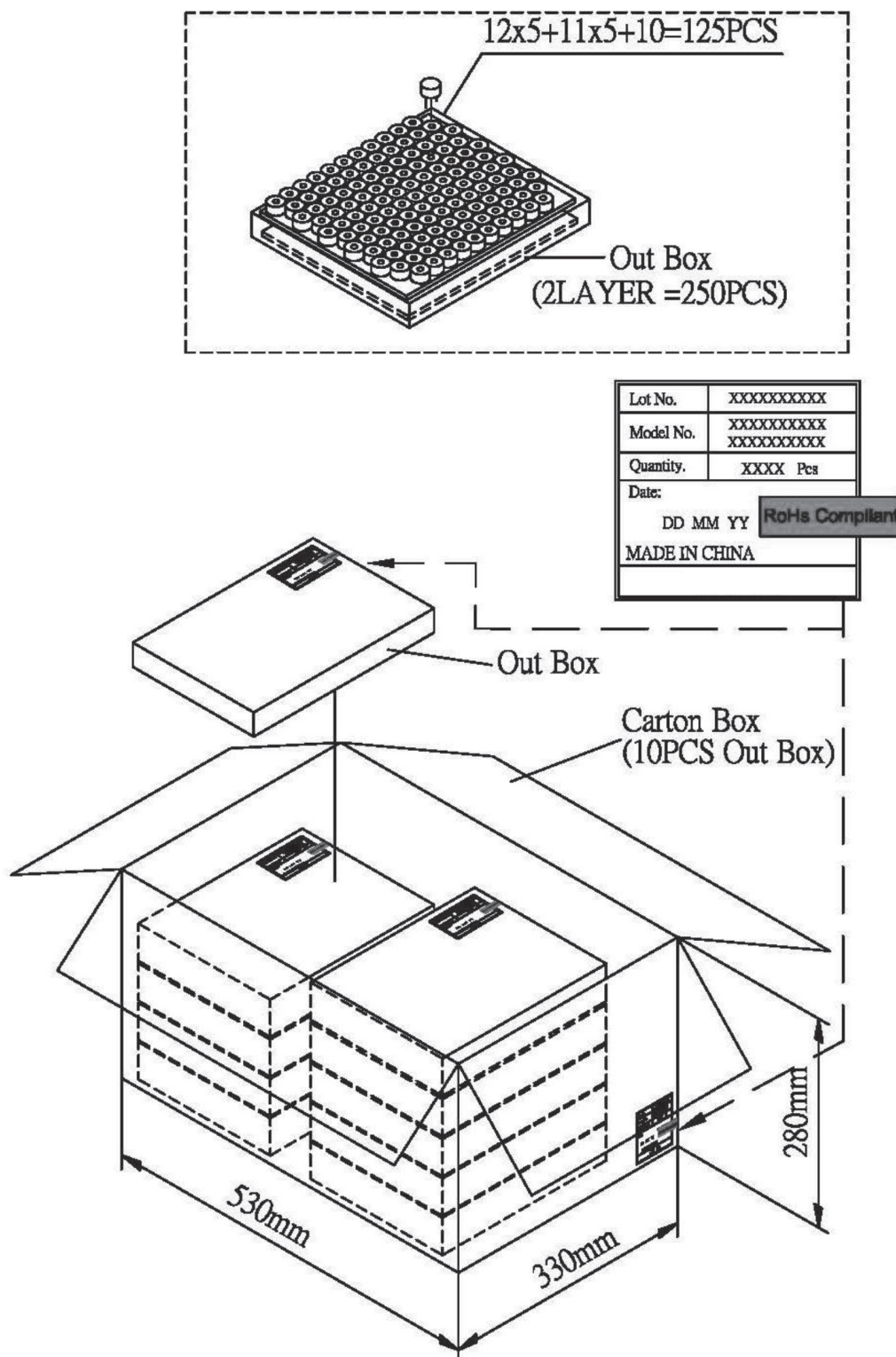
Inner Unit Size: 305 x 245 x 49 mm

Carton Size: 530 x 330 x 280 mm

Tray QTY: 125 pcs per tray

Inner Unit QTY: 250 pcs per unit

Carton QTY: 2,500 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 09/19/2006 |
| 1.01 | applied new spec template    | 03/19/2019 |
| 1.02 | brand update                 | 10/11/2019 |
| 1.02 | 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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