

**MODEL:** CMS-160903-16SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 0.94 W
- miniature
- PEEK cone
- solder pad

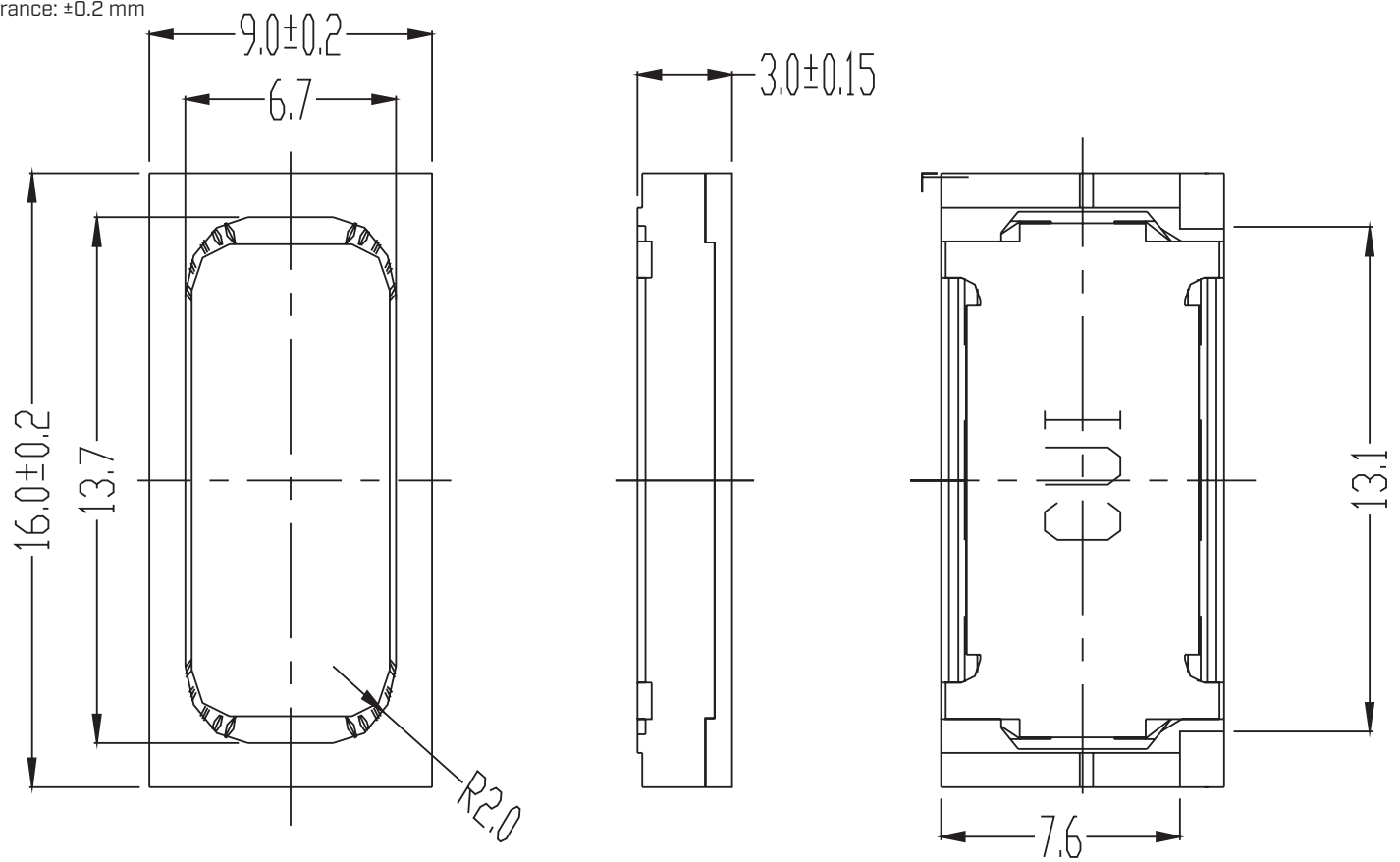
**SPECIFICATIONS**

| parameter               | conditions/description                                    | min | typ  | max    | units    |
|-------------------------|-----------------------------------------------------------|-----|------|--------|----------|
| input power             | max power: as per IEC-268-5, in 1 cc box                  |     | 0.94 | 1.2    | W        |
| impedance               | at 2.0 kHz, 2.37 Vrms                                     | 4.8 | 6    | 7.2    | $\Omega$ |
| resonant frequency (Fo) | at 2.37 Vrms, 10 cm in 1 cc box                           | 680 | 850  | 1,020  | Hz       |
| frequency response      |                                                           | 500 |      | 10,000 | Hz       |
| sound pressure level    | at 0.94 W, 10 cm, avg at 2.0 kHz in 1 cc box              | 88  | 91   | 94     | dB       |
| distortion              | at 1.0 kHz, rated power, 10 cm in 1 cc box                |     |      | 10     | %        |
| buzz, rattle, etc.      | must be normal at sine wave, 0.2~2 kHz, 1 cc box          |     |      | 2.37   | V        |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |     |      |        |          |
| dimensions              | 16 x 9 x 3                                                |     |      |        | mm       |
| magnet                  | Nd-Fe-B                                                   |     |      |        |          |
| frame material          | PPA                                                       |     |      |        |          |
| cone material           | PEEK                                                      |     |      |        |          |
| terminal                | solder pads                                               |     |      |        |          |
| weight                  |                                                           |     | 1.4  |        | g        |
| operating temperature   |                                                           | -20 |      | 60     | °C       |
| storage temperature     |                                                           | -40 |      | 70     | °C       |
| hand soldering          | for maximum 3 seconds                                     |     |      | 380    | °C       |
| RoHS                    | yes                                                       |     |      |        |          |

Notes: 1. All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

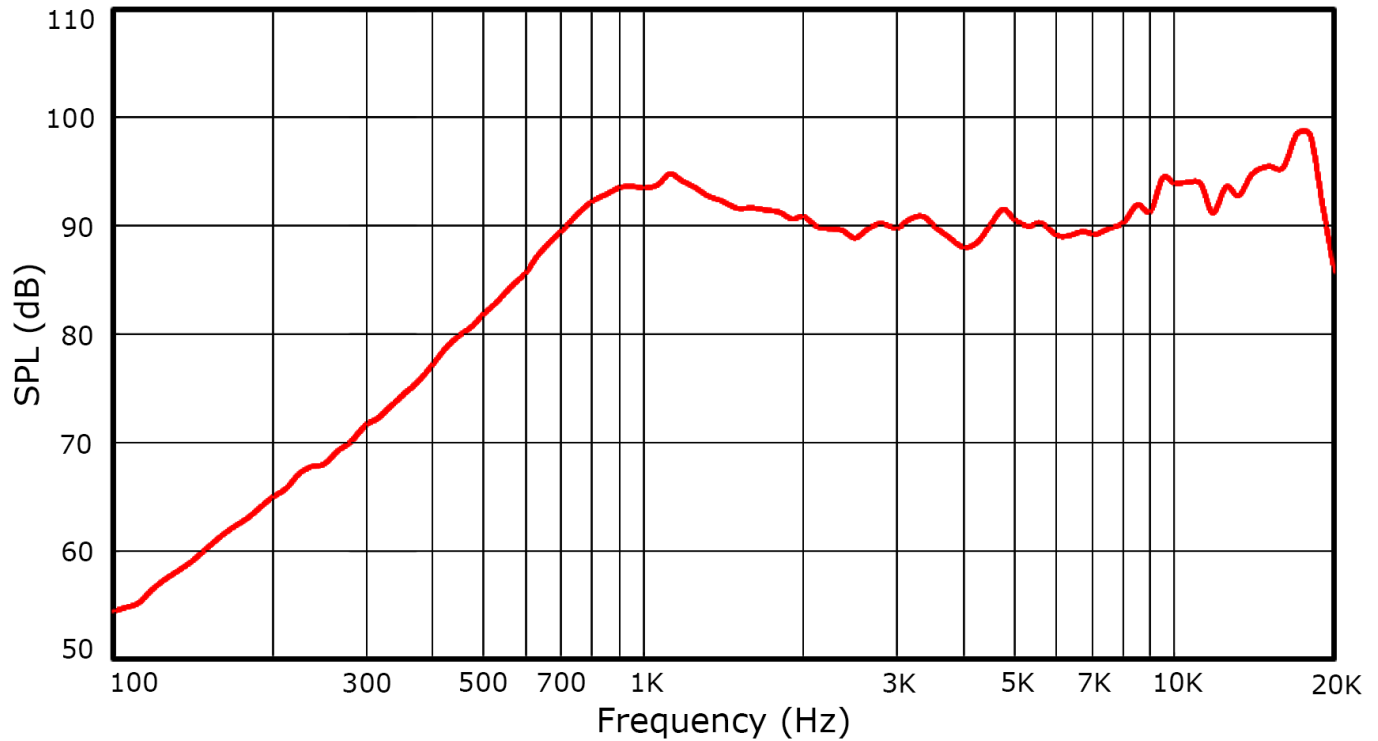
units: mm  
tolerance:  $\pm 0.2$  mm



## RESPONSE CURVES

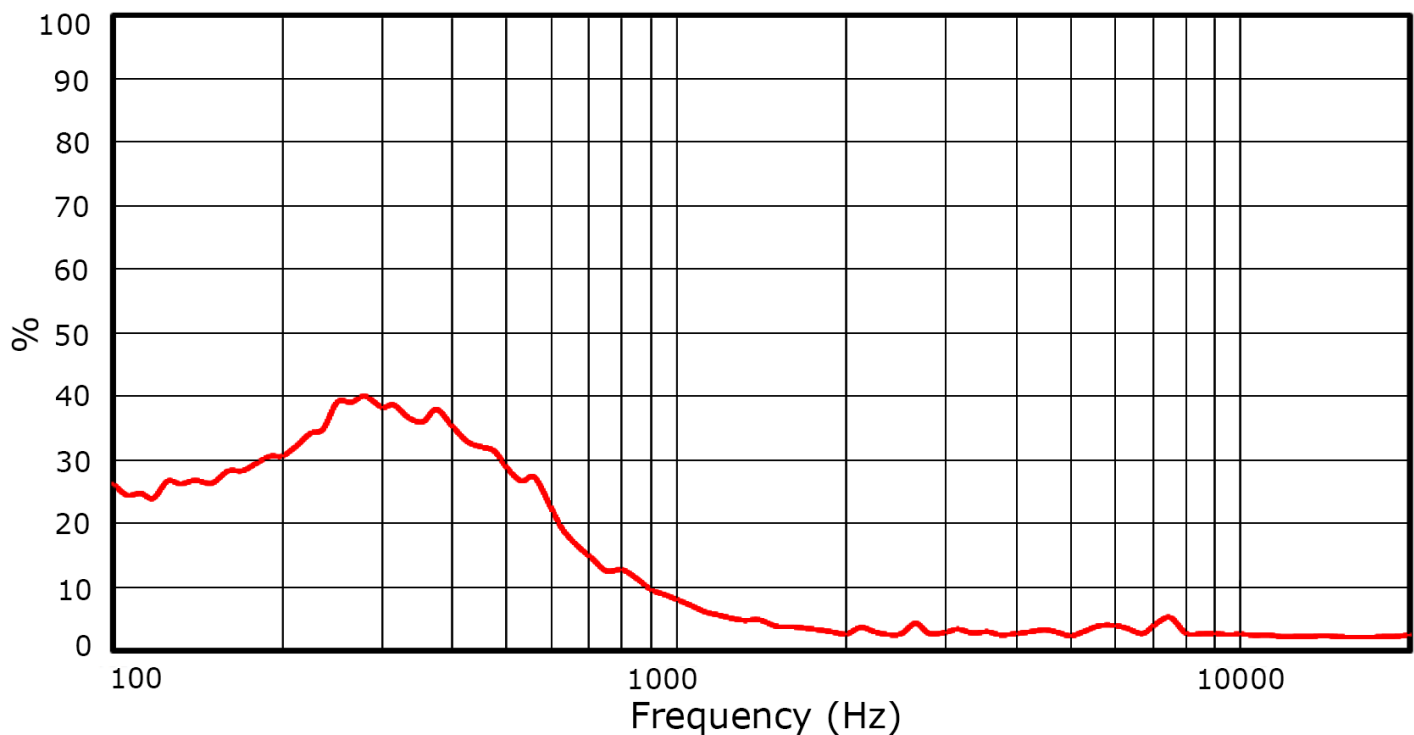
### Frequency Response Curve

Test Conditions: 0.94 W / 10 cm in 1 cc box



### Total Harmonic Distortion Curve

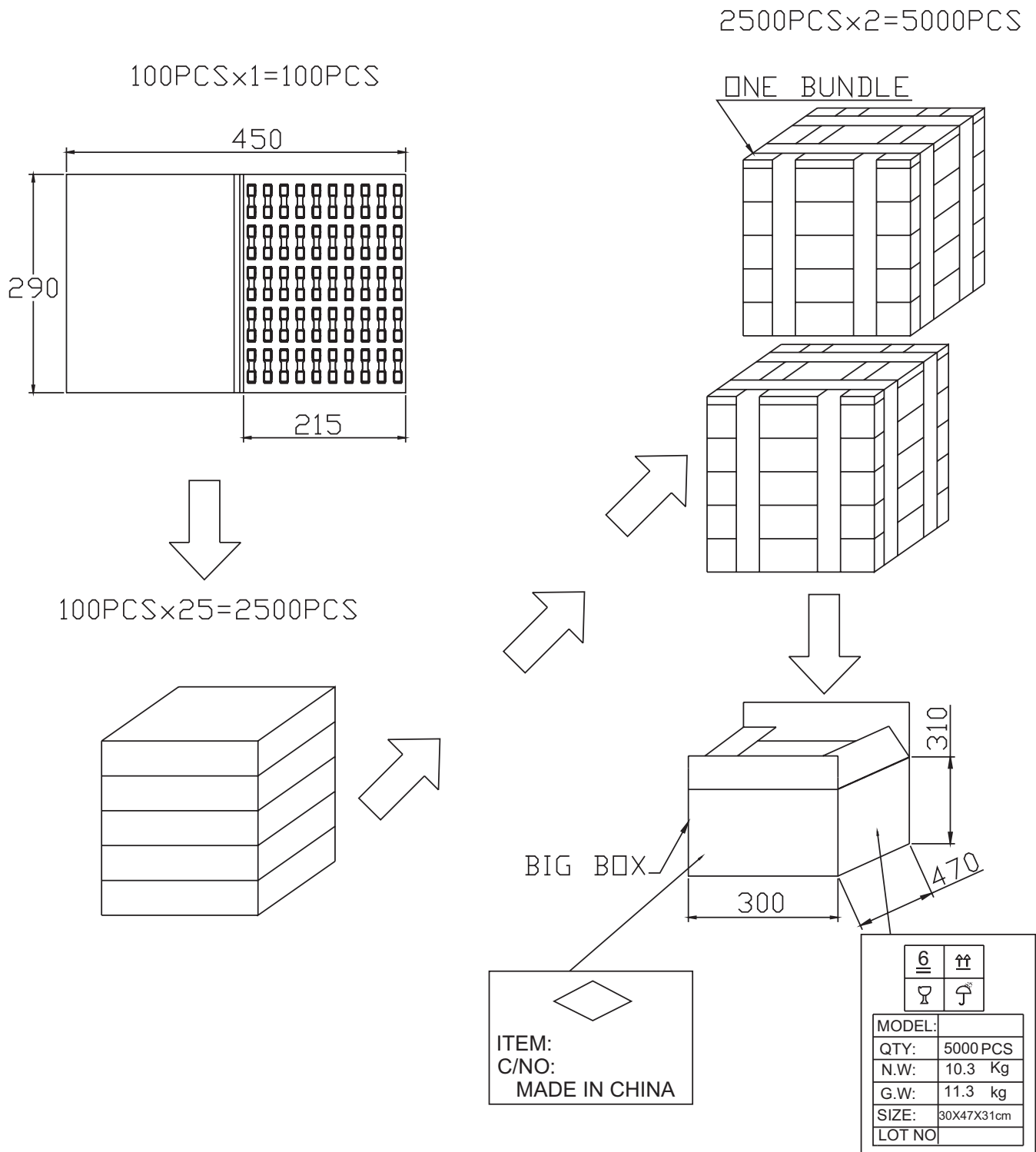
Test Conditions: 0.94 W / 10 cm in 1 cc box



## PACKAGING

units: mm

Tray QTY: 100 pcs per tray  
Carton Size: 300 x 470 x 310 mm  
Carton QTY: 5,000 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 11/05/2019 |
| 1.01 | 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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