

MODEL: CMS-231137-158SP-X8

| DESCRIPTION: SPEAKER

FEATURES

- IPX8 rated
- rated 1.5 W
- 8  $\Omega$



SPECIFICATIONS

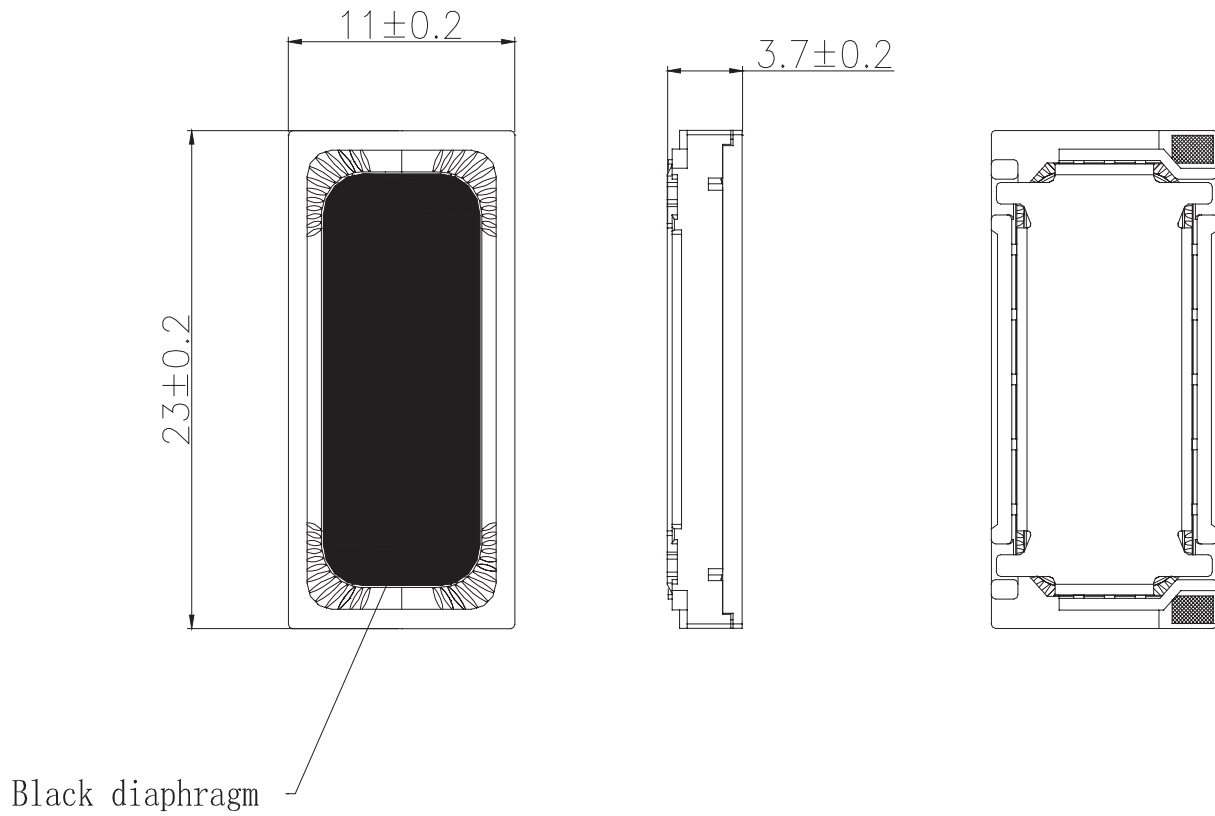
| parameter               | conditions/description                                    | min  | typ   | max    | units              |
|-------------------------|-----------------------------------------------------------|------|-------|--------|--------------------|
| input power             | max power: as per IEC-268-5, in 1 cc box                  |      | 1.5   | 1.7    | W                  |
| impedance               | at 2.0 kHz, 3.46 Vrms                                     | 6.8  | 8     | 9.2    | $\Omega$           |
| coil resistance         |                                                           | 6.12 | 7.2   | 8.28   | $\Omega$           |
| resonant frequency [Fo] | at 3.46 Vrms, 10 cm in 1 cc box                           | 800  | 1,000 | 1,200  | Hz                 |
| frequency response      |                                                           | Fo   |       | 20,000 | Hz                 |
| sound pressure level    | at 3.46 Vrms, 10 cm, avg 1.0, 1.5, 2.0 kHz, 1 cc box      | 100  | 103   | 106    | dB                 |
| distortion              | at 2.0 kHz, 3.46 Vrms, 10 cm                              |      |       | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, 0.2~ 2 kHz, in 1 cc box      |      |       | 3.46   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |       |        |                    |
| dimensions              | 23 x 11 x 3.7                                             |      |       |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |      |       |        |                    |
| frame material          | PPA                                                       |      |       |        |                    |
| cone material           | PEEK                                                      |      |       |        |                    |
| terminal                | solder pads                                               |      |       |        |                    |
| weight                  |                                                           | 2.5  | 3     | 3.5    | g                  |
| operating temperature   |                                                           | -20  |       | 60     | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -20  |       | 70     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds                                     |      |       | 380    | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                       |      |       |        |                    |
| IP level                | IPX8 (front side)                                         |      |       |        |                    |

Notes:

1. All specifications measured at 15~35 $^{\circ}\text{C}$ , humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

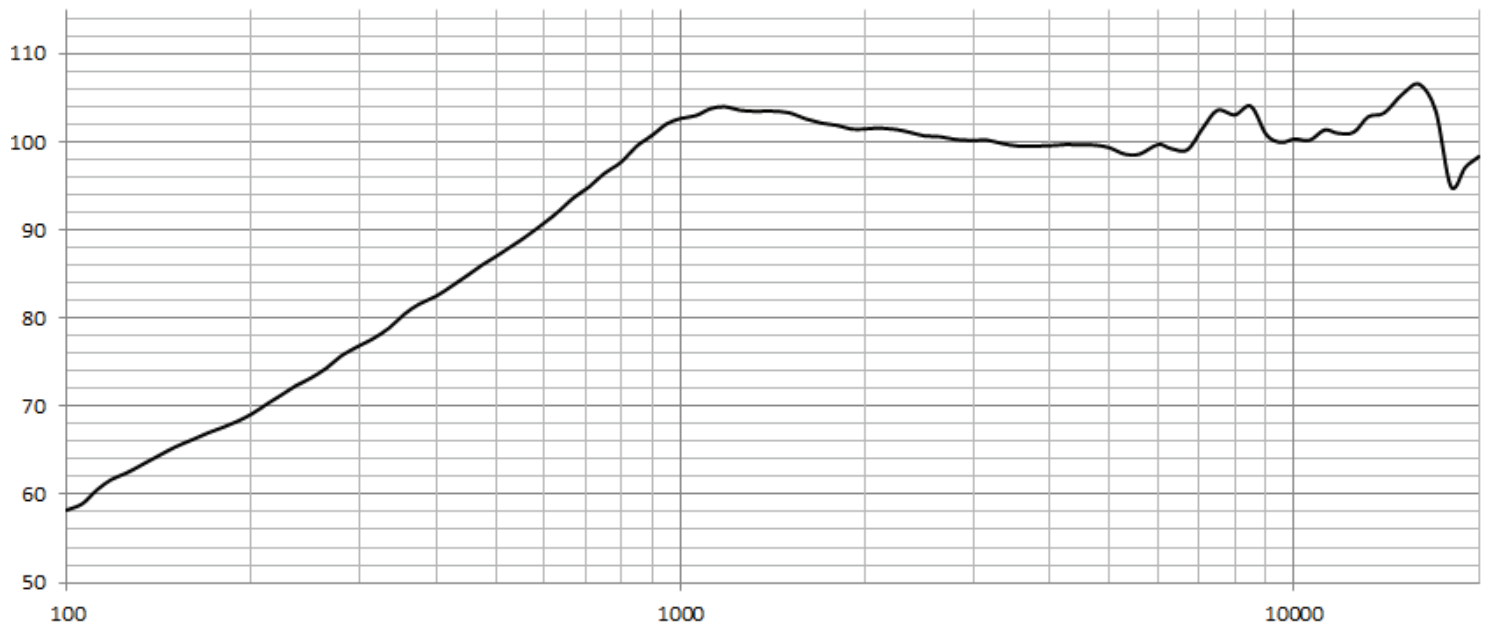
units: mm  
tolerance:  $\pm 0.2$  mm



## RESPONSE CURVES

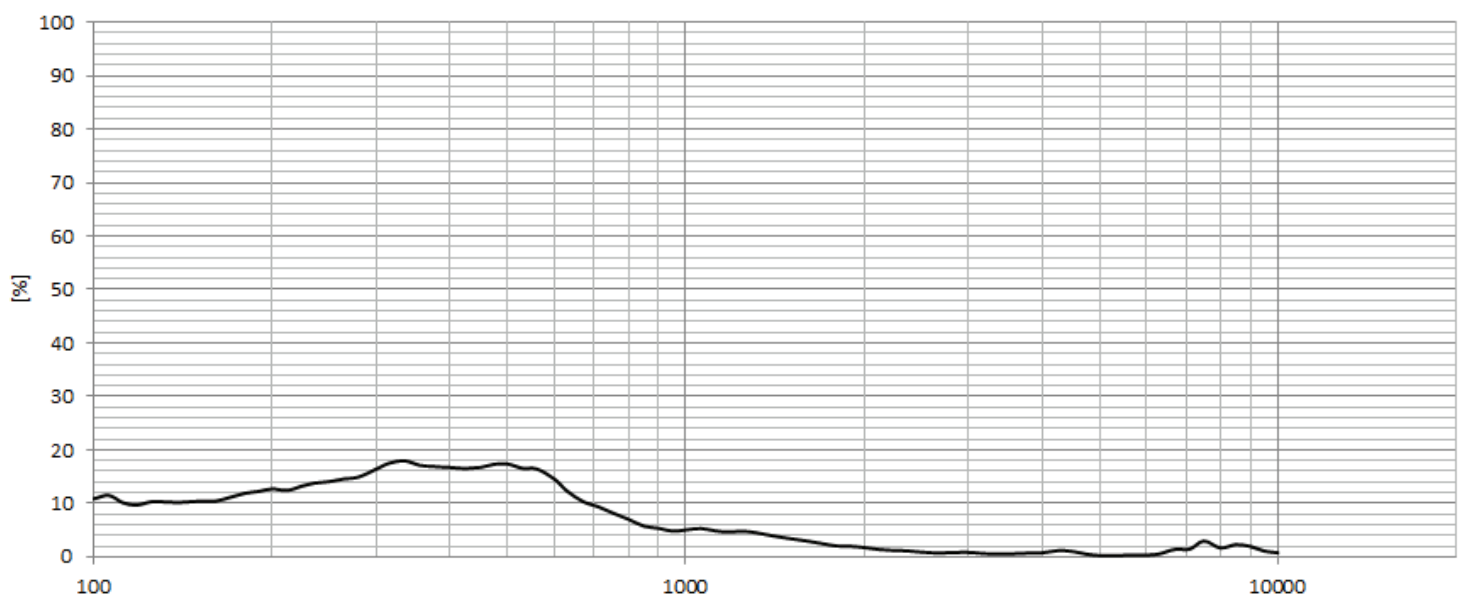
### Frequency Response Curve

Test Conditions: 3.46 Vrms / 10 cm in 1 cc box



### Total Harmonic Distortion Curve

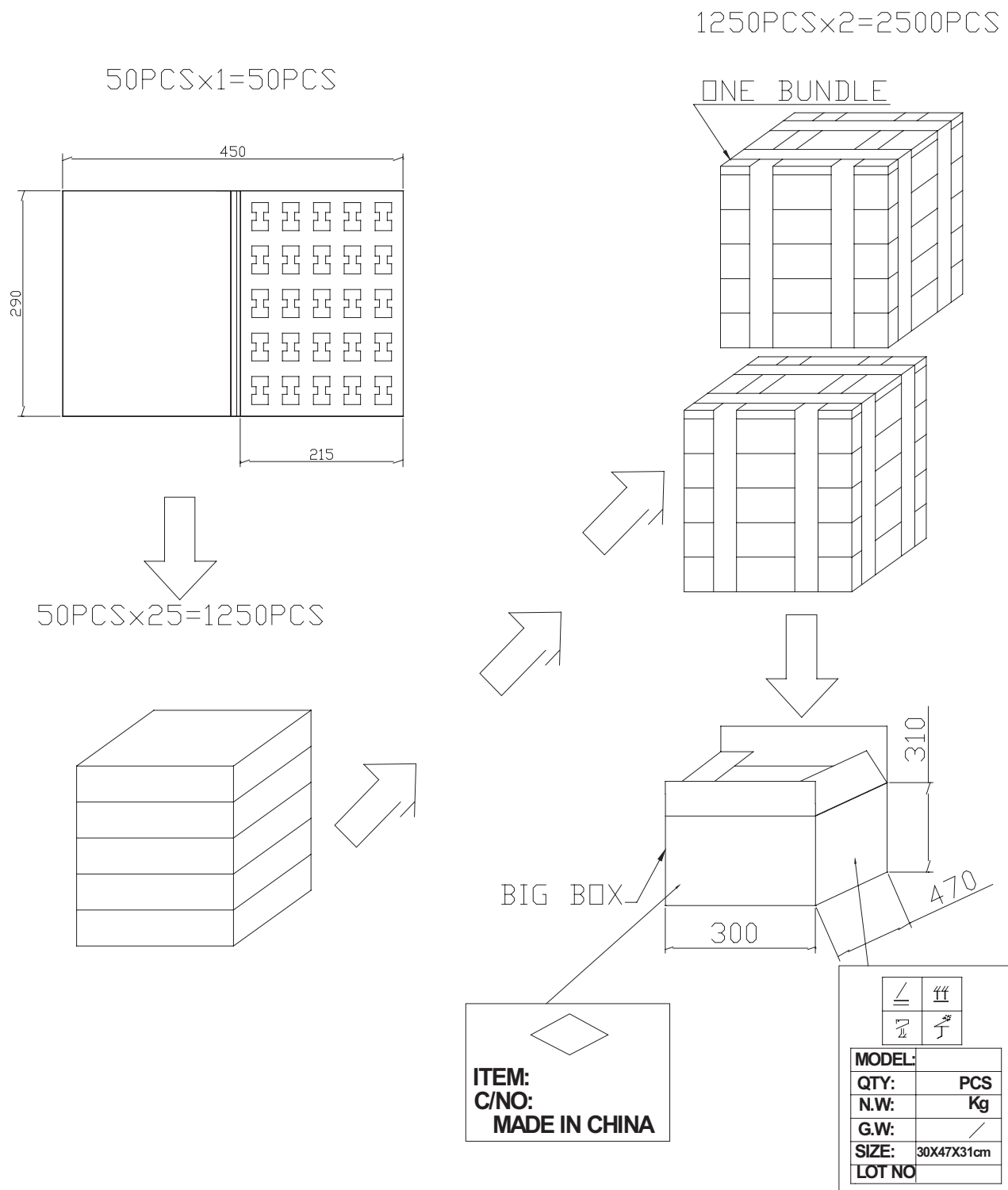
Test Conditions: 3.46 Vrms / 10 cm in 1 cc box



## PACKAGING

units: mm

Tray QTY: 50 pcs per tray  
Carton Size: 470 x 300 x 310 mm  
Carton QTY: 2,500 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/22/2023 |
| 1.01 | 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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