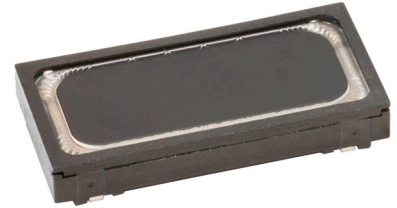


MODEL: CMS-231137-158SP-X8 | **DESCRIPTION:** SPEAKER**FEATURES**

- IPX8 rated
- rated 1.5 W
- 8 Ω

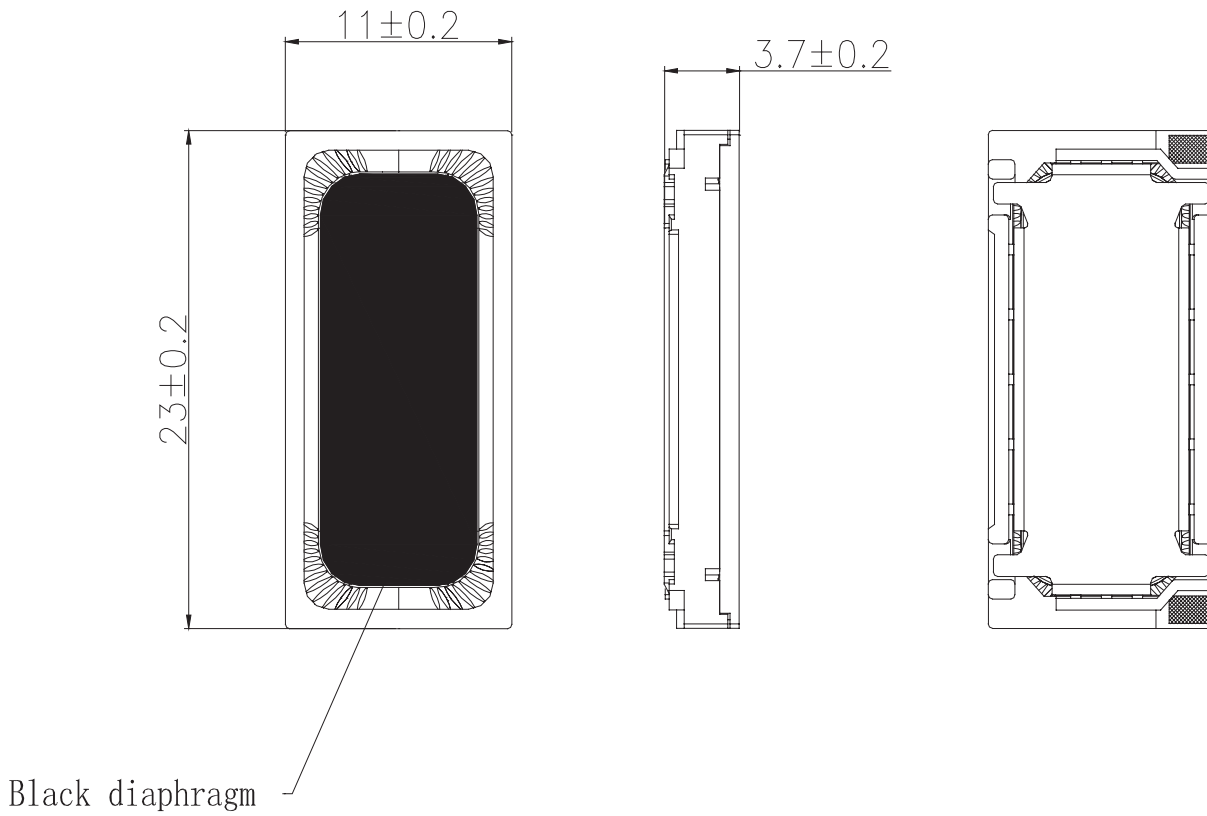
**SPECIFICATIONS**

| 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 | Ω |
| coil resistance | | 6.12 | 7.2 | 8.28 | Ω |
| 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 | $^{\circ}$ C |
| storage temperature | | -20 | | 70 | $^{\circ}$ C |
| hand soldering | for maximum 3 seconds | | | 380 | $^{\circ}$ C |
| RoHS | yes | | | | |
| IP level | IPX8 (front side) | | | | |

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

MECHANICAL DRAWING

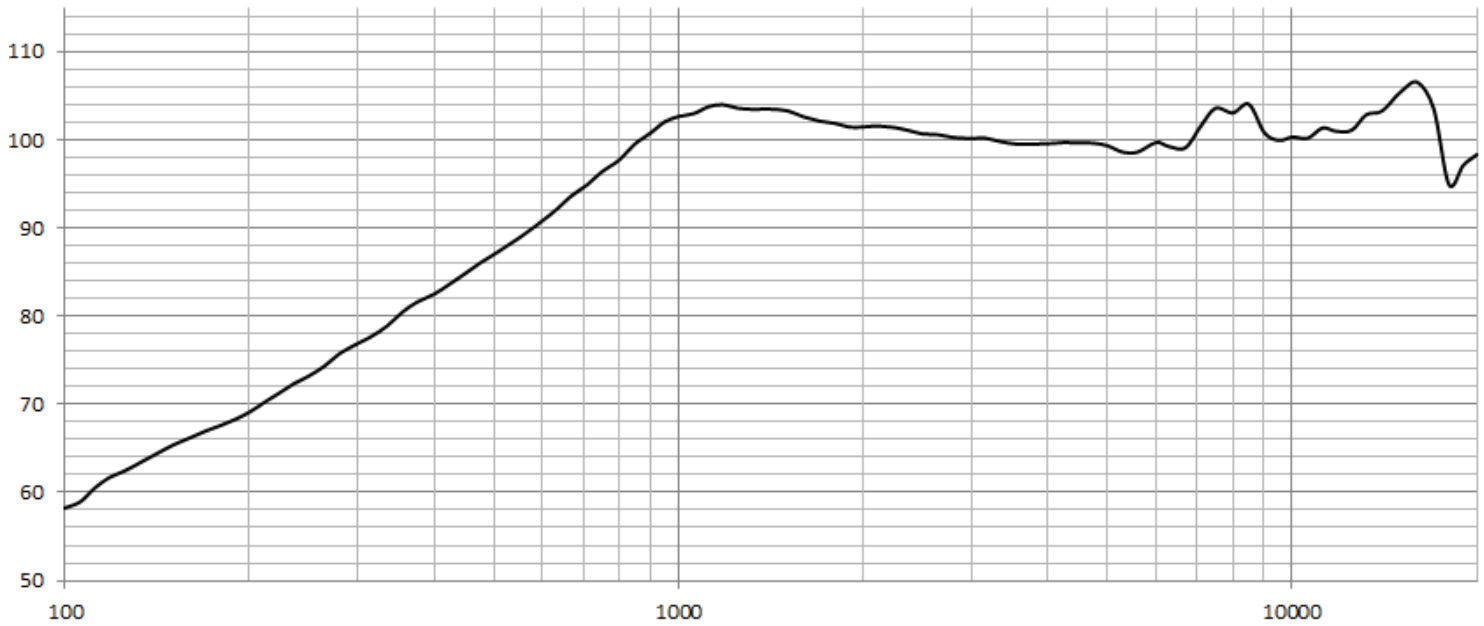
units: mm
tolerance: ± 0.2 mm



RESPONSE CURVES

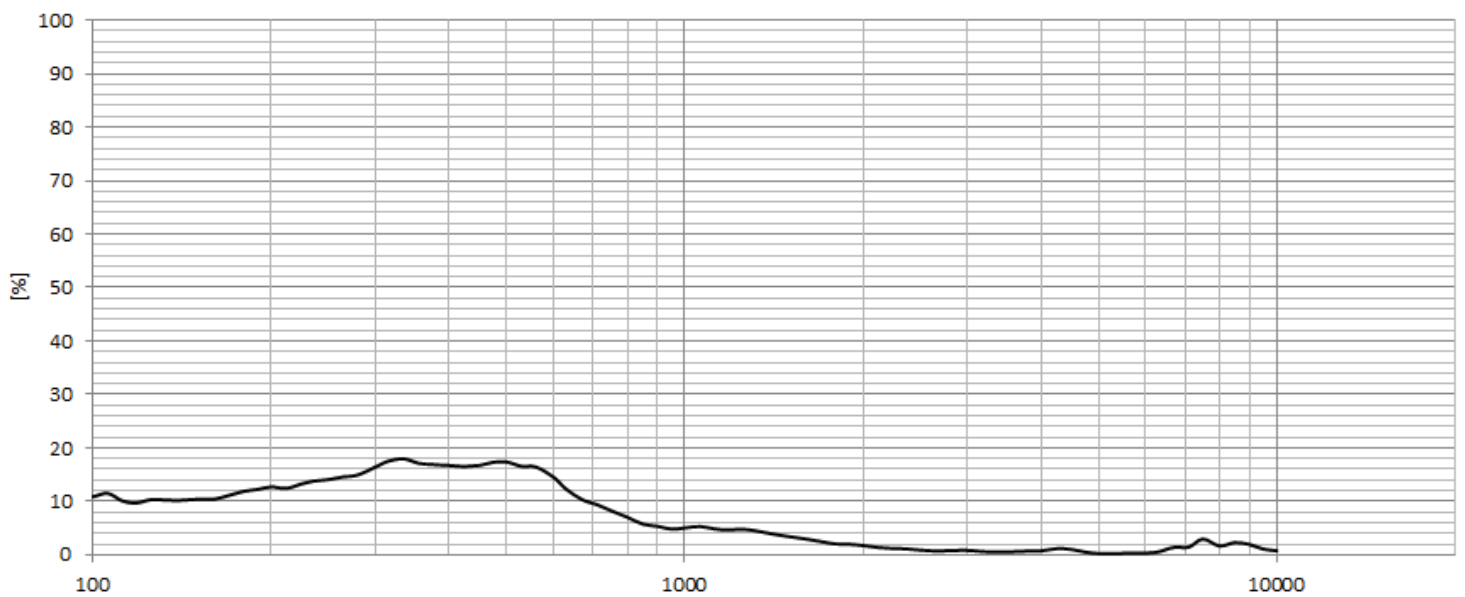
Frequency Response Curve

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



Total Harmonic Distortion Curve

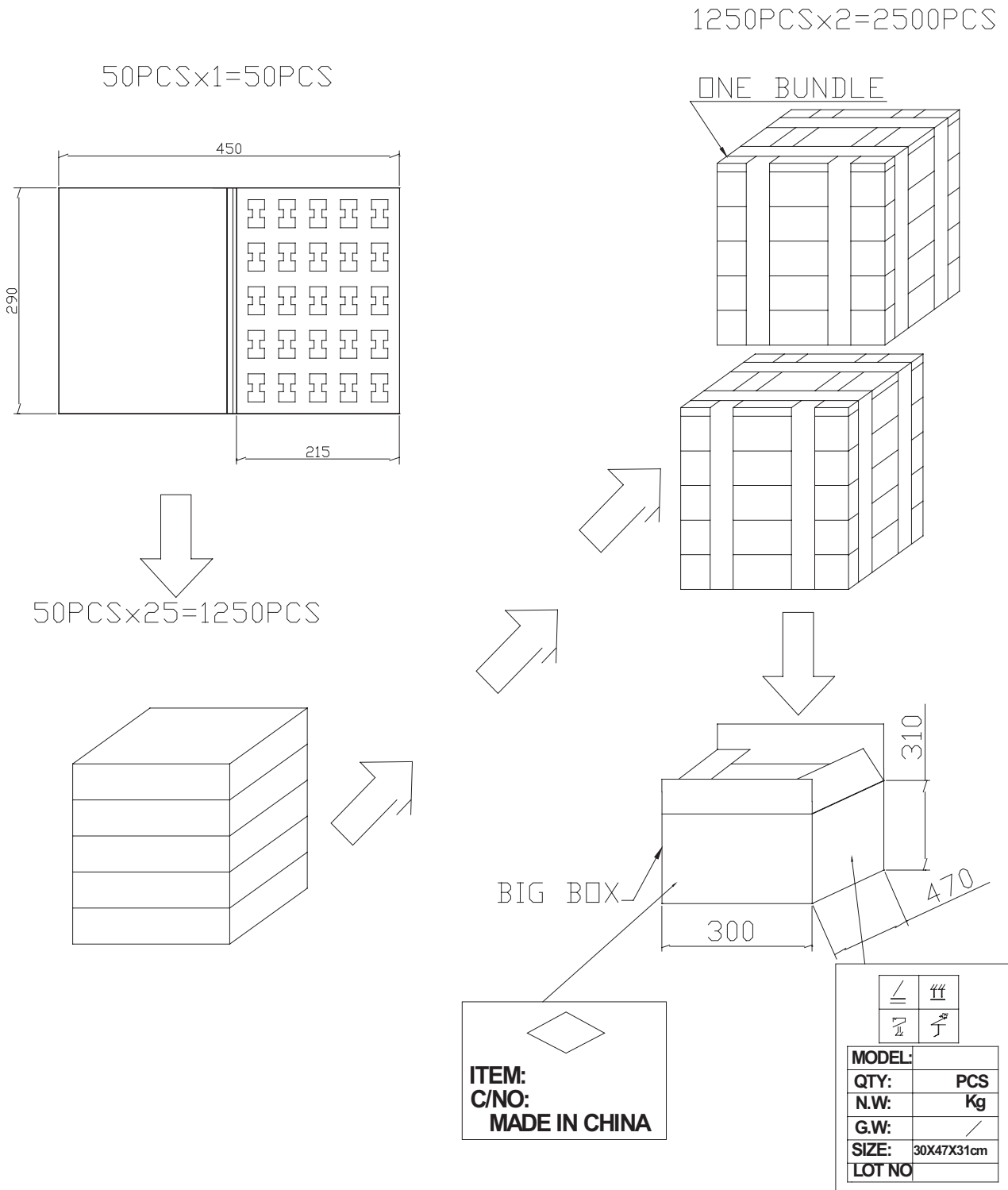
Test Conditions: 3.46 Vrms / 10 cm in 1 cc box



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 |

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



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

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