# MODEL: CMS-151103-18SP-X8 | DESCRIPTION: SPEAKER

## FEATURES

- IPX8 rated
- rated 1 W
- 8 Ω



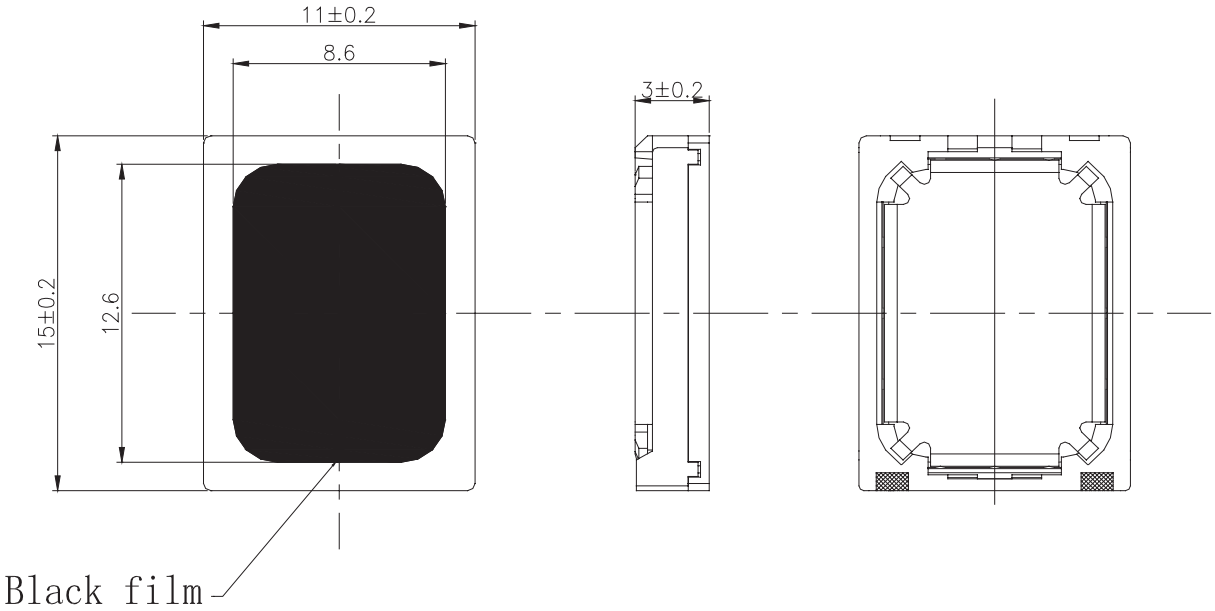
## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| input power | max power: as per IEC-268-5, in 1 cc box | | 1.0 | 1.3 | W |
| impedance | at 2.0 kHz, 2.83 Vrms | 6.8 | 8 | 9.2 | Ω |
| coil resistance | | 6.48 | 7.2 | 7.92 | Ω |
| resonant frequency (Fo) | at 2.83 Vrms, 10 cm in 1 cc box | 760 | 950 | 1,140 | Hz |
| frequency response | | Fo | | 20,000 | Hz |
| sound pressure level | at 2.83 Vrms, 10 cm, avg 0.8, 1.0, 1.5, 2.0 kHz, 1 cc box | 92 | 95 | 98 | dB |
| distortion | at 2.0 kHz, 2.83 Vrms, 10 cm | | | 10 | % |
| buzz, rattle, etc. | must be normal at sine wave, 0.2~ 2kHz in 1 cc box | | | 2.83 | V |
| polarity | cone moves forward w/ positive dc current to “+” terminal | | | | |
| dimensions | 15 x 11 x 3.0 | | | | mm |
| magnet | Nd-Fe-B | | | | |
| frame material | PPA | | | | |
| cone material | PEEK | | | | |
| terminal | solder pads | | | | |
| weight | | | 1.5 | | g |
| operating temperature | | -20 | | 70 | °C |
| storage temperature | | -40 | | 85 | °C |
| hand soldering | for maximum 3 seconds | | | 380 | °C |
| RoHS | yes | | | | |
| IP level | IPX8 (front side) | | | | |

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

## MECHANICAL DRAWING

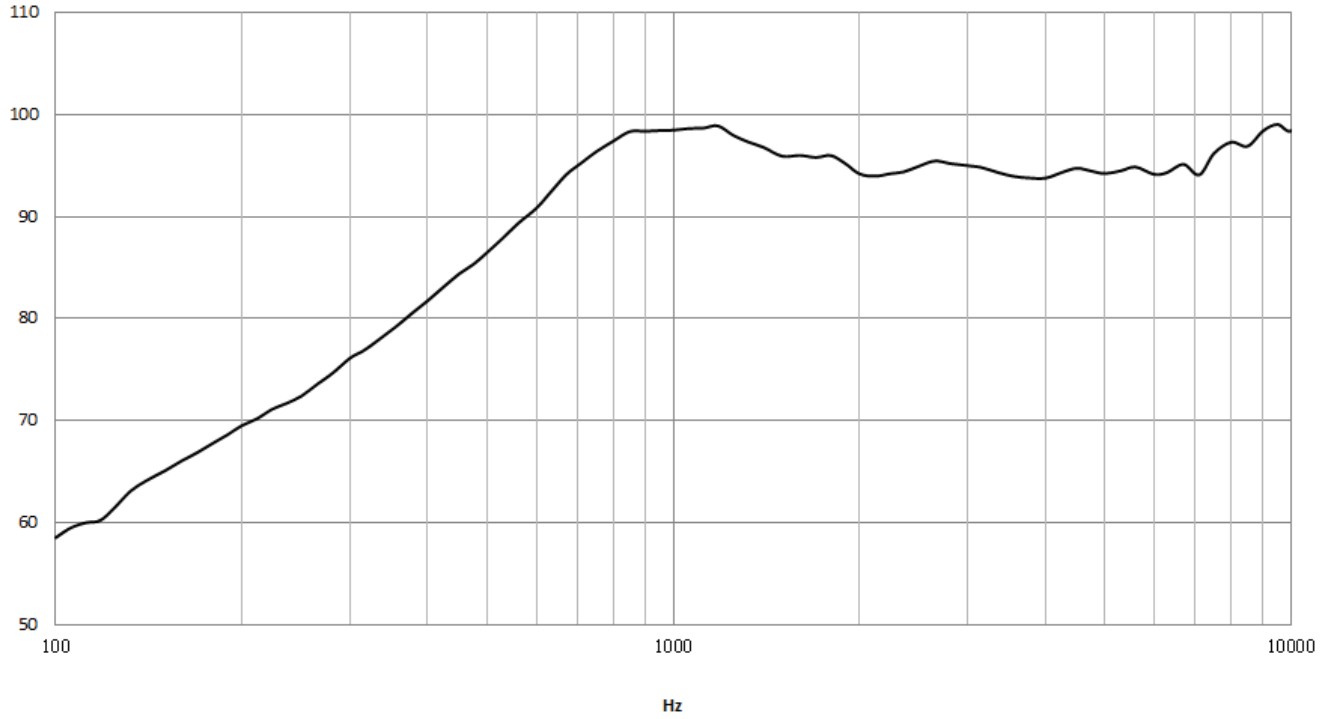
units: mm
tolerance: ±0.2 mm



## RESPONSE CURVES

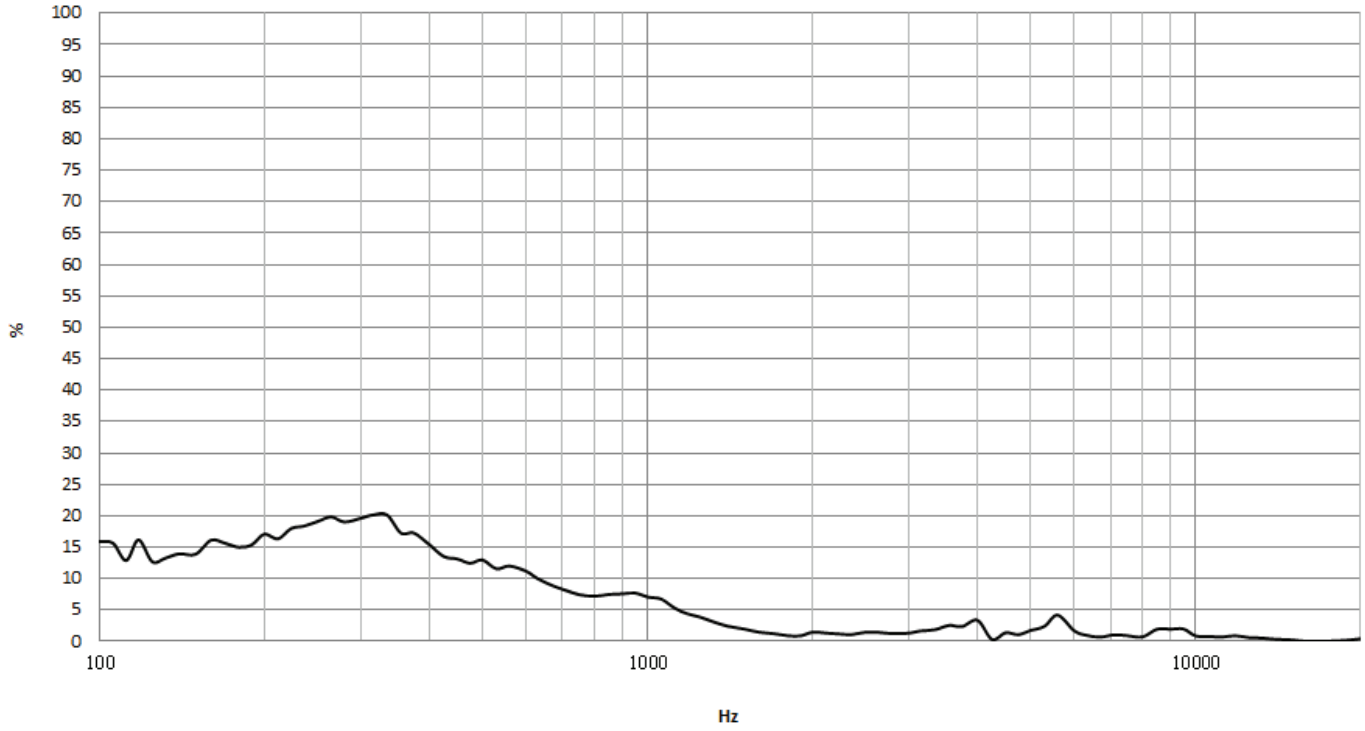
### Frequency Response Curve

Test Conditions: 2.83 Vrms / 10 cm in 1 cc box




### Total Harmonic Distortion Curve

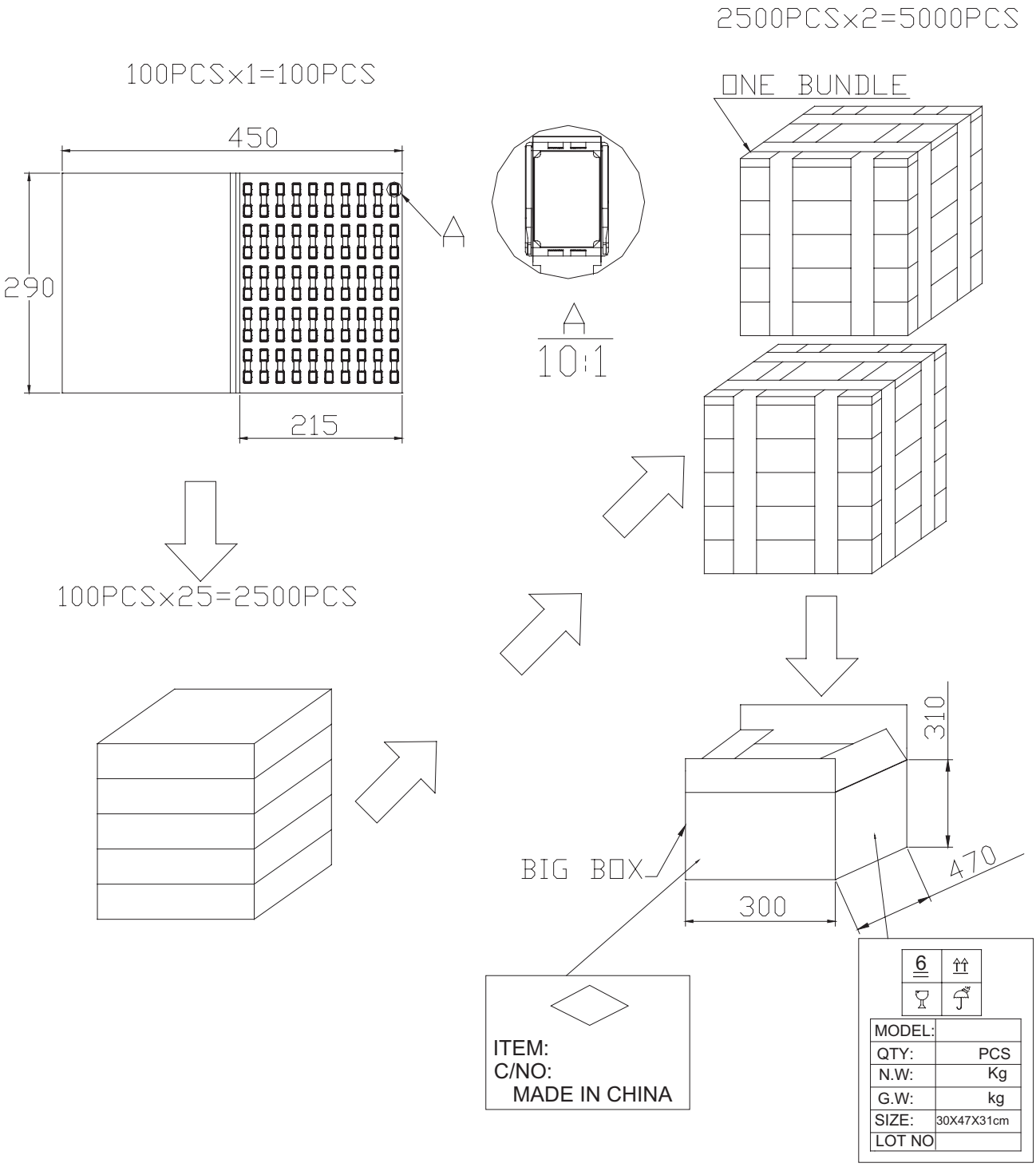
Test Conditions: 2.83 Vrms / 10 cm in 1 cc box



## PACKAGING

units: mm

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

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