

**MODEL:** CMS-25145-158SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 8 ohm rated impedance
- 1.5 W rated power
- 700 Hz resonance frequency

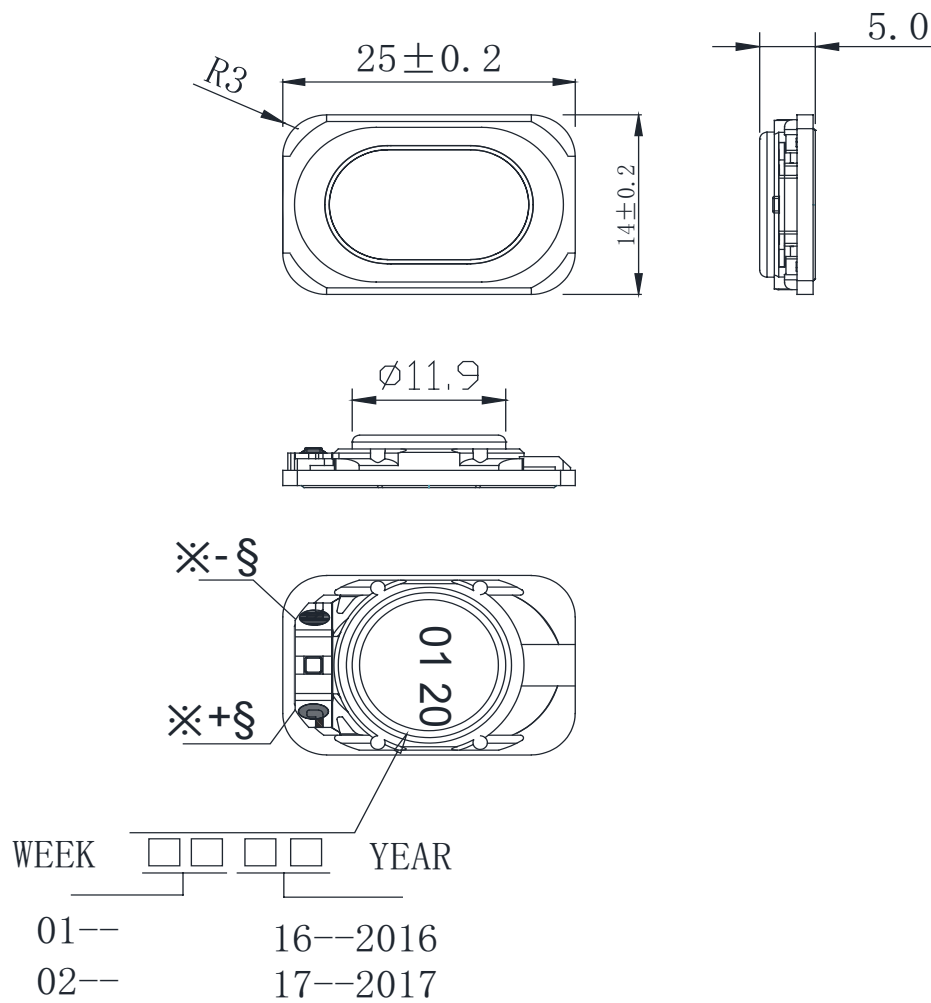
**SPECIFICATIONS**

| parameter               | conditions/description                                                               | min | typ | max    | units              |
|-------------------------|--------------------------------------------------------------------------------------|-----|-----|--------|--------------------|
| input power             | max power: IEC-60268-5, filter 60 seconds on, 120 seconds off, 10 cycles (room temp) |     | 1.5 | 1.8    | W                  |
| impedance               | at 2.5 kHz, 1.0 V                                                                    | 6.8 | 8   | 9.2    | $\Omega$           |
| resonant frequency (Fo) | at 1.0 V                                                                             | 560 | 700 | 840    | Hz                 |
| frequency response      |                                                                                      | Fo  |     | 10,000 | Hz                 |
| sound pressure level    | at 1.5 W, 10 cm, avg at 1.0, 2.0, 2.5, 3.0 kHz                                       | 90  | 93  | 96     | dB                 |
| distortion              | at 1.0 kHz, rated power, 10 cm                                                       |     |     | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range                                         |     |     | 3.46   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal                            |     |     |        |                    |
| dimensions              | 25.0 x 14.0 x 5.0                                                                    |     |     |        | mm                 |
| magnet                  | Nd-Fe-B                                                                              |     |     |        |                    |
| frame material          | ABS                                                                                  |     |     |        |                    |
| cone material           | foam                                                                                 |     |     |        |                    |
| terminal                | solder pads                                                                          |     |     |        |                    |
| weight                  |                                                                                      |     | 2.2 |        | g                  |
| operating temperature   |                                                                                      | -20 |     | 60     | $^{\circ}\text{C}$ |
| storage temperature     |                                                                                      | -25 |     | 65     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds                                                                | 370 | 380 | 390    | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                                                  |     |     |        |                    |

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$ , humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

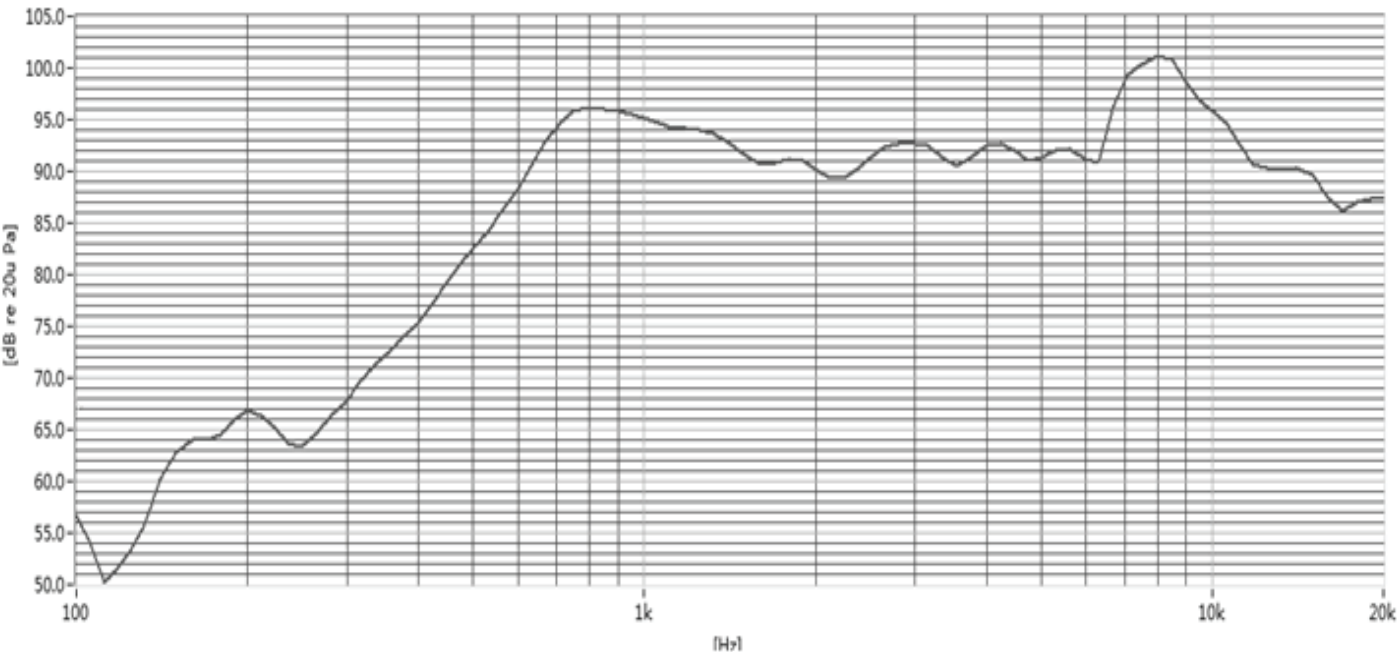
units: mm  
tolerance:  $\pm 0.2$  mm



RESPONSE CURVES

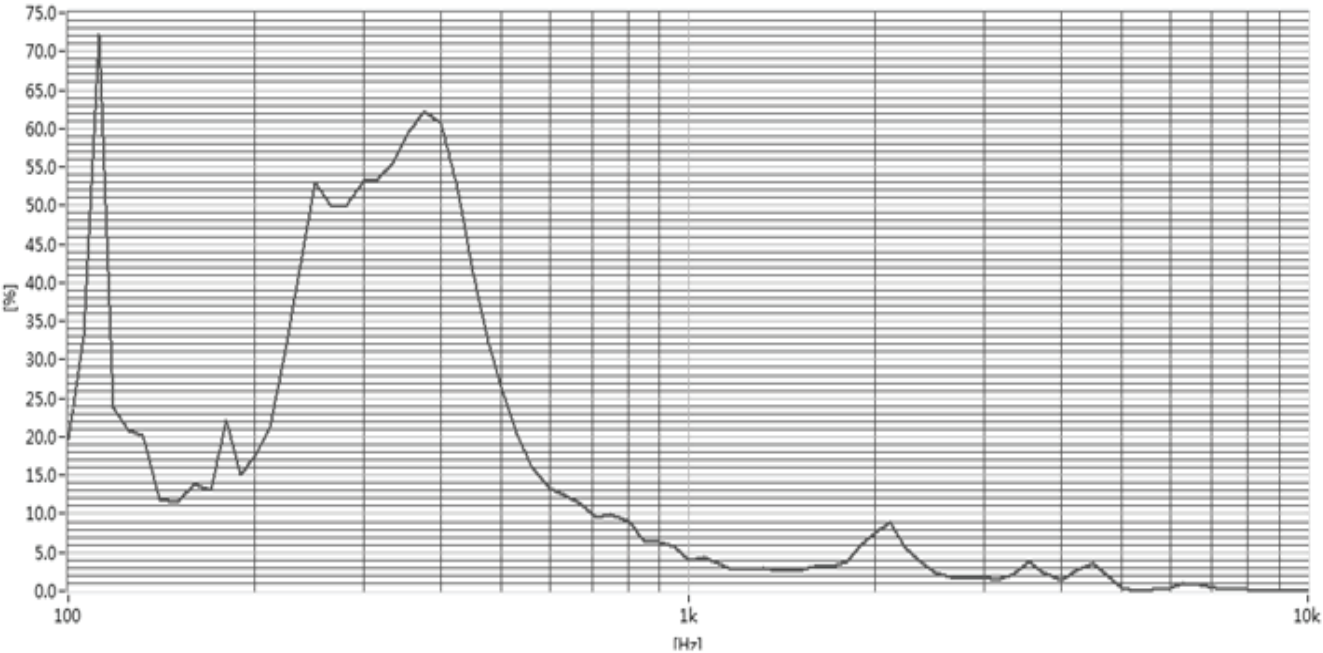
Frequency Response Curve

Test Conditions: 1.5 W / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 1.5 W / 10 cm



THIELE-SMALL PARAMETERS

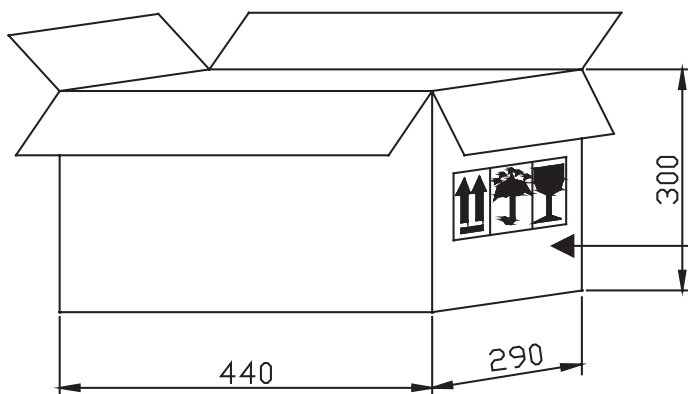
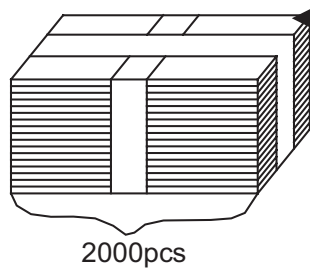
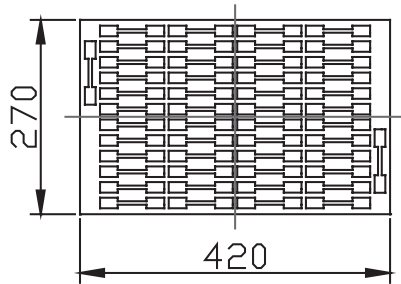
| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 2.281  |
| Electrical Q Factor          | Qes                    | 7.714  |
| Total Q Factor               | Qts                    | 1.761  |
| Compliance Equivalent Volume | Vas                    | 0.0025 |

Notes: 2. Results represent typical performance in Free Air conditions.

## PACKAGING

units: mm

Tray Size: 420 x 270 x 13 mm  
Tray QTY: 100 pcs per tray  
Carton Size: 440 x 290 x 300 mm  
Carton QTY: 2,000 pcs per carton



|               |                 |
|---------------|-----------------|
| Lot No.       | XXXXXXXXXX      |
| Part No.      | Inv#,<br>Part#. |
| Quantity.     | XXXX Pcs        |
| Date:         | DD MM YY        |
| MADE IN CHINA |                 |

**RoHs Compliant**

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/10/2020 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.03 | added Thiele-Small Parameters     | 02/26/2025 |

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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.

**sameskydevices.com**