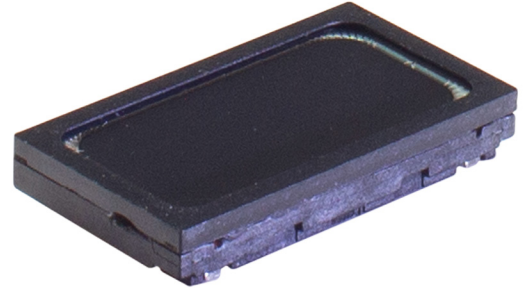


**SERIES:** CMS-25144-24X | **DESCRIPTION:** SPEAKER**FEATURES**

- high sound pressure level
- 4 ohm impedance
- multiple termination options

**SPECIFICATIONS**

| parameter               | conditions/description                                         | min | typ | max    | units    |
|-------------------------|----------------------------------------------------------------|-----|-----|--------|----------|
| input power             | max power: 1 min on, 2 min off, 10 cycles, in 2.2 cc box       |     | 2.0 | 2.2    | W        |
| impedance               | at 2.0 kHz, 2.83 Vrms                                          | 3.2 | 4.0 | 4.8    | $\Omega$ |
| resonant frequency [Fo] | at 2.0 W, 10 cm, in 2.2 cc box                                 | 680 | 850 | 1,020  | Hz       |
| frequency response      |                                                                | Fo  |     | 20,000 | Hz       |
| sound pressure level    | at 2.0 W, 10 cm, avg at 1.0, 1.18, 1.5 kHz in 2.2 cc box       | 100 | 103 | 106    | dB       |
| distortion              | at 2.0 kHz, 2.0 W, 10 cm                                       |     |     | 10     | %        |
| buzz, rattle, etc.      | must be normal at sine wave, between 0.2~2.0 kHz in 2.2 cc box |     |     | 2.83   | V        |
| polarity                | cone moves forward w/ positive dc current to "+" terminal      |     |     |        |          |
| dimensions              | 25 x 14 x 4                                                    |     |     |        | mm       |
| magnet                  | Nd-Fe-B                                                        |     |     |        |          |
| frame material          | PBT                                                            |     |     |        |          |
| cone material           | PEEK                                                           |     |     |        |          |
| weight                  | solder pads model                                              |     | 4.5 |        | g        |
|                         | wire leads model                                               |     | 4.8 |        | g        |
| operating temperature   |                                                                | -20 |     | 70     | °C       |
| storage temperature     |                                                                | -40 |     | 85     | °C       |
| hand soldering          | for 3~5 seconds                                                | 370 | 380 | 390    | °C       |
| RoHS                    | yes                                                            |     |     |        |          |

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

**PART NUMBER KEY****CMS - 25144 - 24 XX**

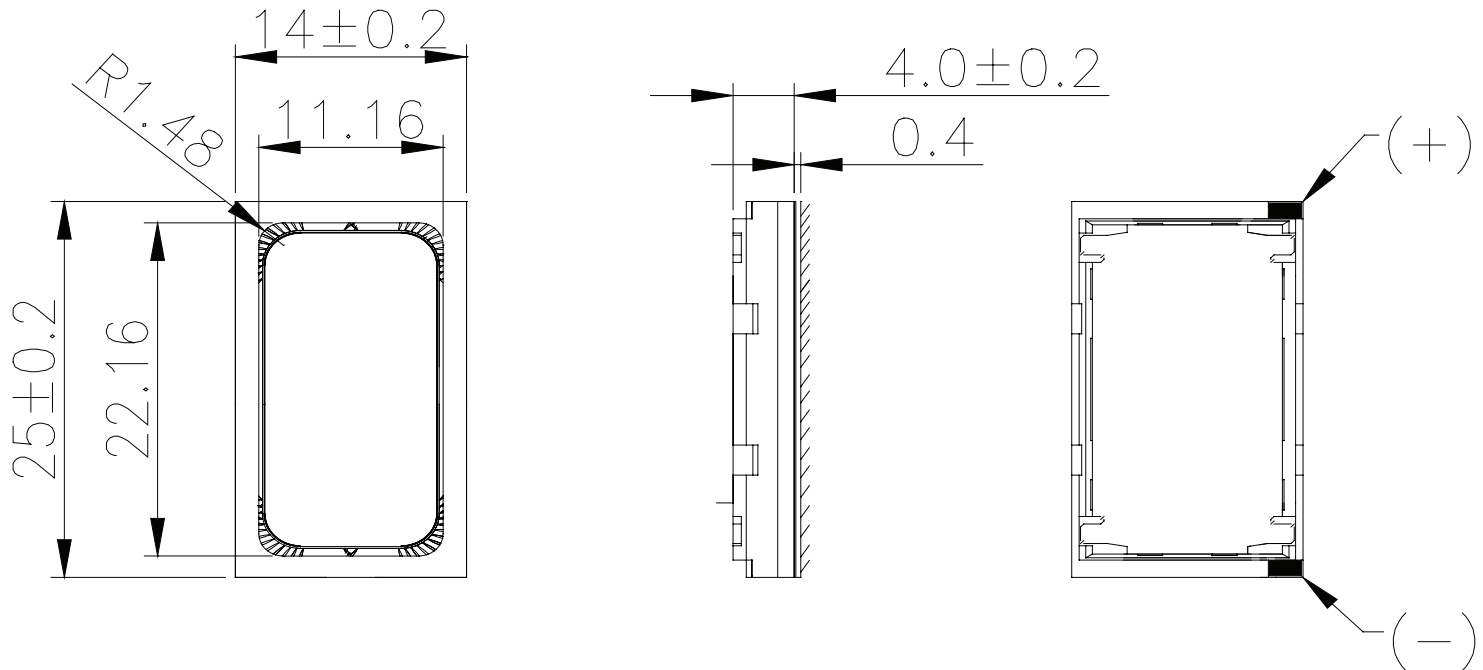
Base Number

Termination Options:  
SP = solder pads  
L200 = wire leads

## MECHANICAL DRAWING (SOLDER PADS)

units: mm  
tolerance:  $\pm 0.2$  mm

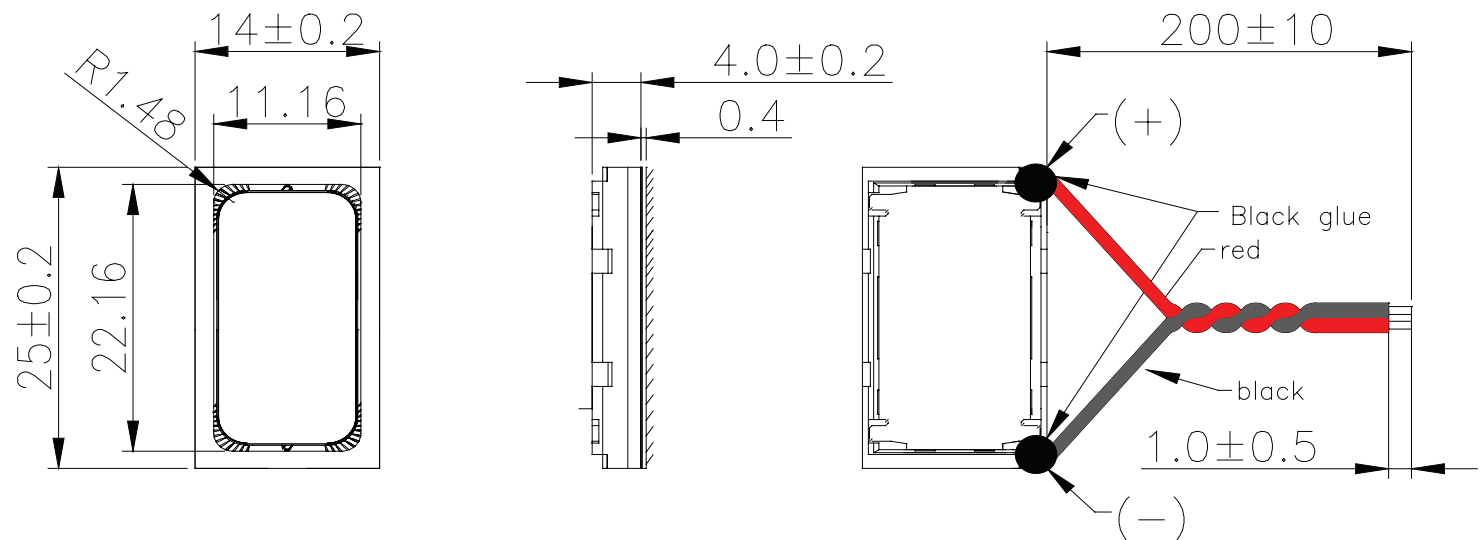
used in enclosed speaker CES-40198-24-L200



## MECHANICAL DRAWING (WIRE LEADS)

units: mm  
tolerance:  $\pm 0.2$  mm

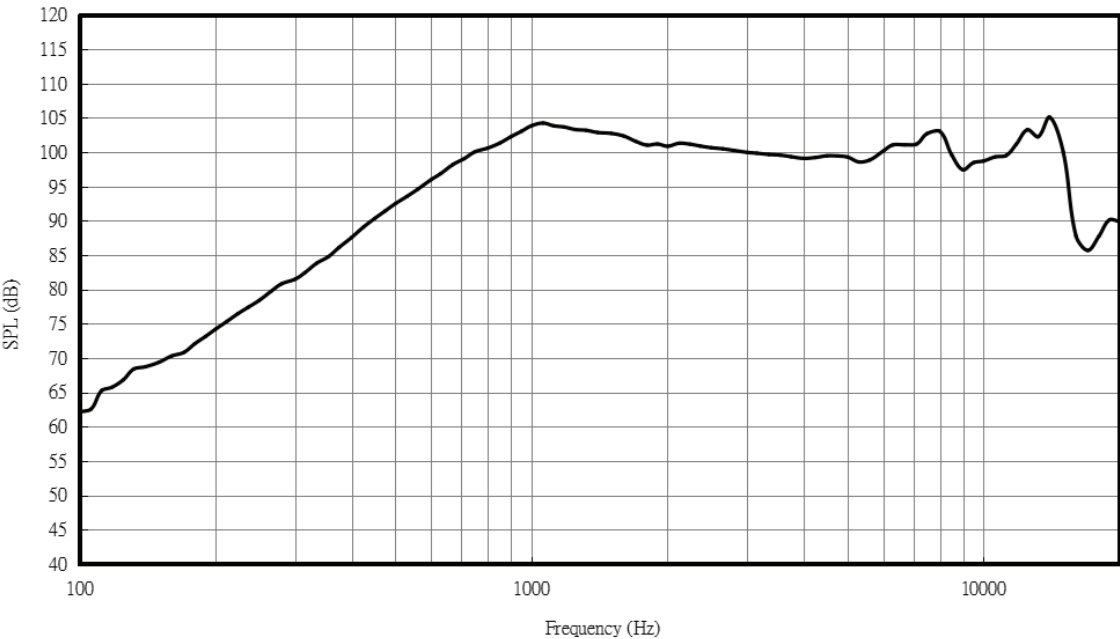
wire: UL1571 30 AWG  
used in enclosed speaker CES-40198-24-L200



RESPONSE CURVES

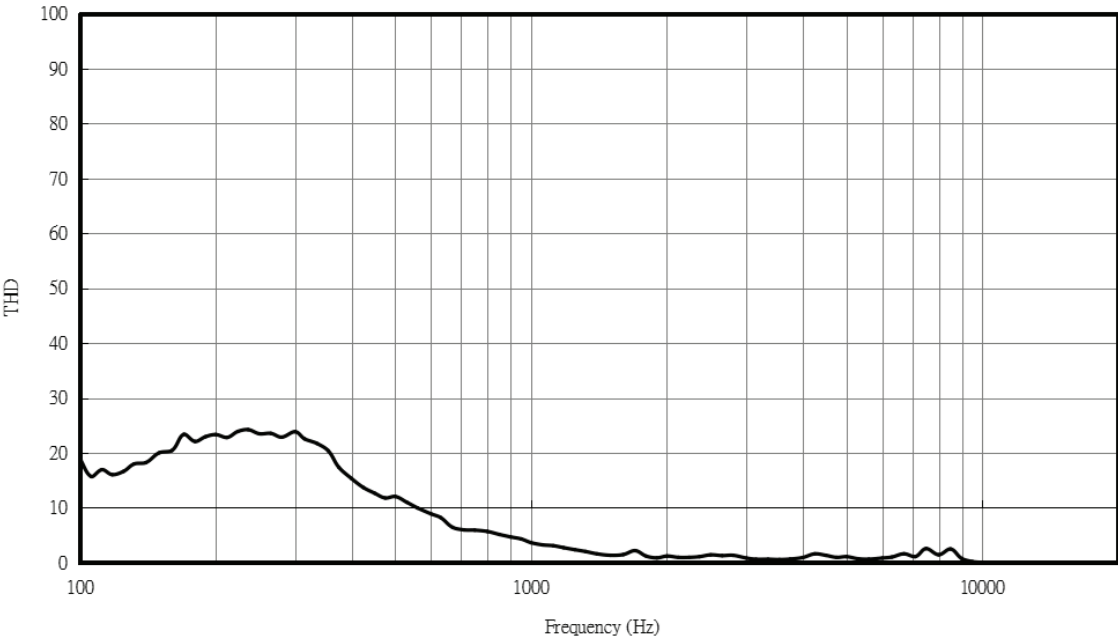
Frequency Response Curve

Test Conditions: 2.83 Vrms/10 cm in 2.2 cc box



Total Harmonic Distortion Curve

Test Conditions: 2.83 Vrms/10 cm in 2.2 cc box



THIELE-SMALL PARAMETERS

| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 1.936  |
| Electrical Q Factor          | Qes                    | 3.307  |
| Total Q Factor               | Qts                    | 1.221  |
| Compliance Equivalent Volume | Vas                    | 0.0045 |

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

REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 12/01/2025 |

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.

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