

**SERIES:** CDS-20144-L100 | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- high SPL
- wide operating temp range
- 4 ohm impedance
- wire leads

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-------------------------|--|-----|-----|--------|--------------------|
| input power | maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp | | 1.0 | 1.2 | W |
| impedance | at 2.0 kHz, 1.0 V | 3.4 | 4 | 4.6 | Ω |
| resonant frequency (Fo) | at 1.0 V | 480 | 600 | 720 | Hz |
| frequency response | output SPL -10 dB | Fo | | 20,000 | Hz |
| sound pressure level | at 1.0 W, 0.1 m ave, at 0.8, 1.0, 1.2, 1.5 kHz | 89 | 92 | 95 | dB |
| distortion | at 1.0 kHz, 2 V | | | 10 | % |
| buzz, rattle, etc. | must be normal at sine wave between Fo ~ 20 kHz | | 2.0 | | V |
| polarity | cone will move forward with positive dc current to "+" terminal | | | | |
| dimensions | 20 x 14 x 3.2 | | | | mm |
| magnet | Nd-Fe-B | | | | |
| material | PBT | | | | |
| cone material | PEN | | | | |
| terminal | wire leads | | | | |
| weight | | | 1.6 | | g |
| operating temperature | | -30 | | 70 | $^{\circ}\text{C}$ |
| storage temperature | | -40 | | 85 | $^{\circ}\text{C}$ |
| RoHS | yes | | | | |

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

PART NUMBER KEY**CDS-20144-L100 X**

Base Number

Termination Style:

"blank" = wire leads, no connector

1 = JST housing SHR-2V-S-B

2 = JST housing ZHR-2

3 = JST housing PHR-2

4 = JST housing HER-2

5* = JST housing PHR-4

6 = Molex housing 51021-0200

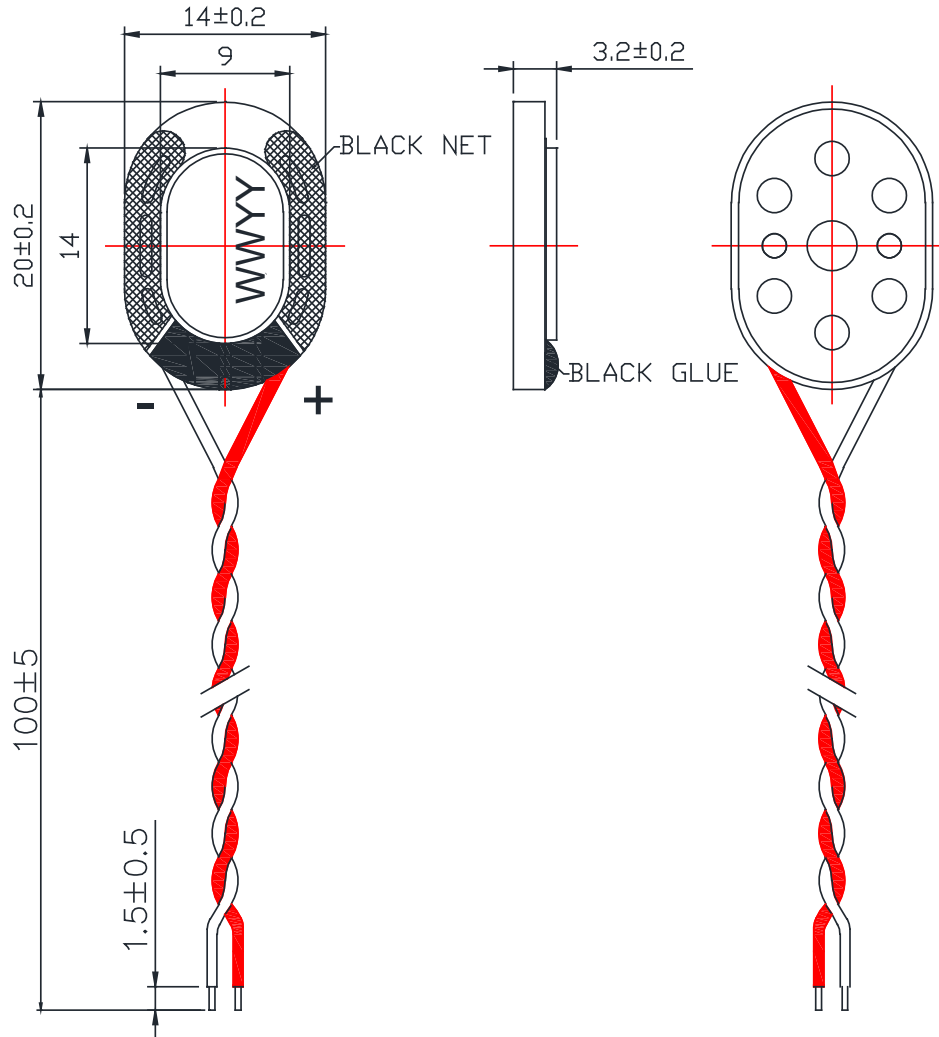
Notes: *Discontinued JST housing PHR-4 option.

MECHANICAL DRAWING

units: mm

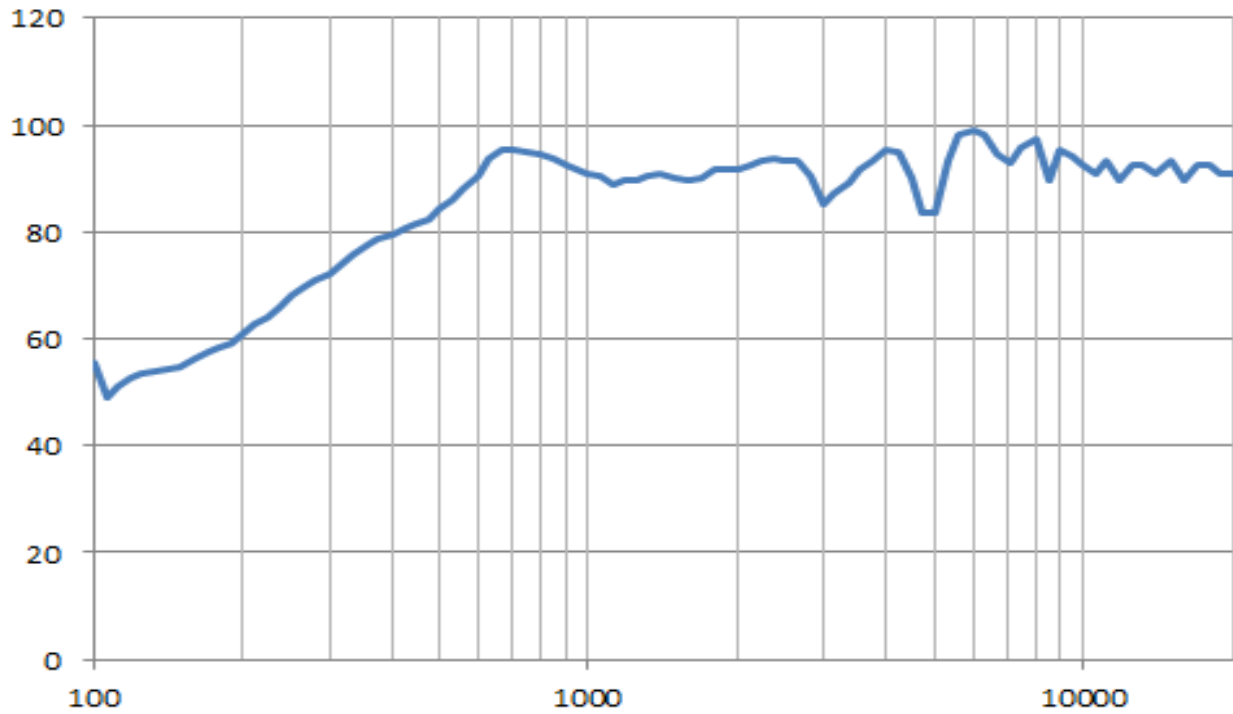
tolerance: ± 0.5 mm

wire: UL1571 30 AWG

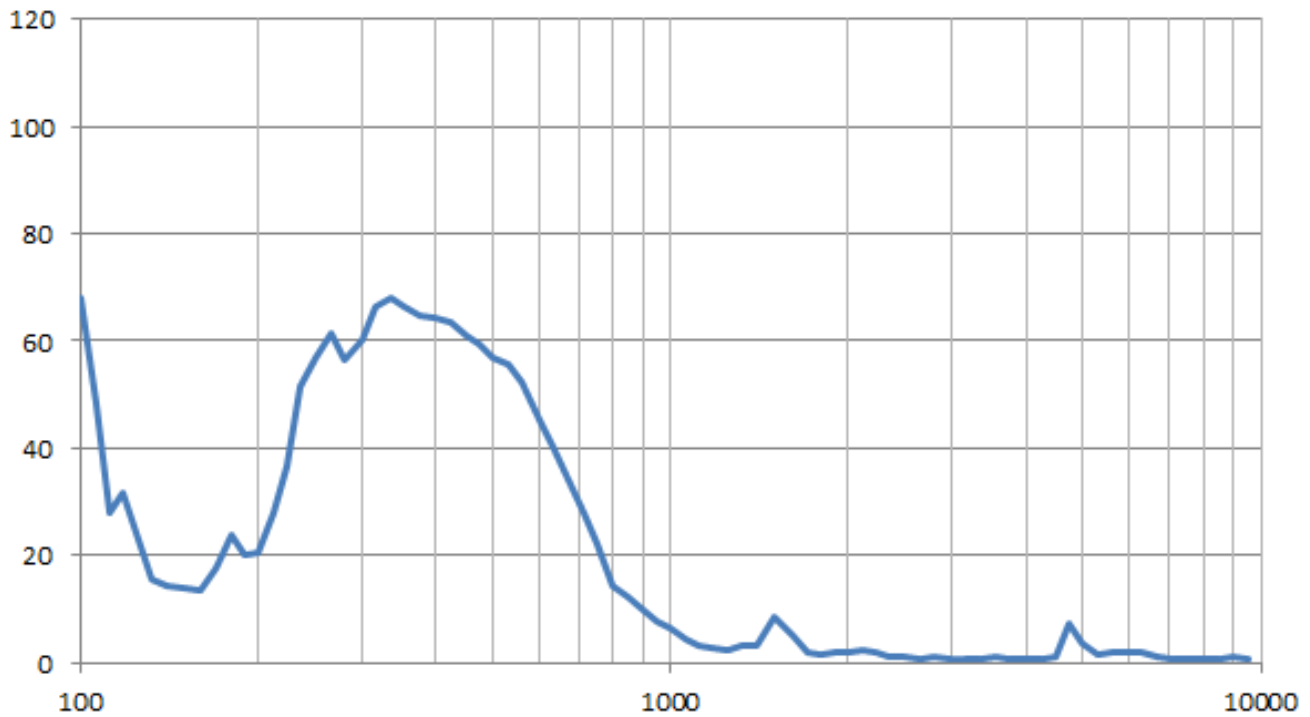


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



REVISION HISTORY

| rev. | description | date |
|------|---------------------------------------|------------|
| 1.0 | initial release | 03/25/2015 |
| 1.01 | added connector options | 07/15/2016 |
| 1.02 | discontinued JST housing PHR-4 option | 07/01/2019 |
| 1.03 | brand update | 01/22/2020 |
| 1.04 | logo, datasheet style update | 08/05/2022 |
| 1.05 | modified design | 01/29/2024 |
| 1.06 | 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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