

**SERIES:** CDS-25148-L100 | **DESCRIPTION:** SPEAKER

**FEATURES**

- micro-speaker
- small footprint
- rated 1.5 W
- 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                       |          | 1.5      | 2.0      | W            |
| impedance               | at 1.4 kHz, 1.0 V  | 6.8      | 8        | 9.2      | $\Omega$     |
| resonant frequency (Fo) | at 1.0 V   | 600      | 750      | 900      | Hz           |
| frequency response      | output SPL $\pm$ 10 dB   | Fo       |          | 20,000   | Hz           |
| sound pressure level    | at 1.5 W, 0.1 m ave, at 1.0, 1.2, 1.5, 2.0 kHz<br>at 1.0 W, 1.0 m ave, at 1.0, 1.2, 1.5, 2.0 kHz | 91<br>70 | 94<br>73 | 97<br>76 | dB           |
| distortion              | at 1.4 kHz, 1.5 W  |          |          | 5        | %            |
| buzz, rattle, etc.      | must be normal at sine wave between Fo ~ 20 kHz  |          | 3.46     |          | V            |
| polarity                | cone will move forward with positive dc current to "+" terminal                                  |          |          |          |              |
| dimensions              | 25.0 x 14.0 x 4.5  |          |          |          | mm           |
| magnet                  | Nd-Fe-B, $\varnothing$ 6.8 x 1.5   |          |          |          | mm           |
| material                | ABS UL-94 1/16" HB (black)   |          |          |          |              |
| cone material           | cloth  |          |          |          |              |
| terminal                | wire leads   |          |          |          |              |
| weight                  |  |          | 1.72     |          | g            |
| operating temperature   |  | -20      |          | 55       | $^{\circ}$ C |
| storage temperature     |  | -30      |          | 70       | $^{\circ}$ C |
| RoHS                    | 2011/65/EU   |          |          |          |              |

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

**PART NUMBER KEY**
**CDS-25148-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

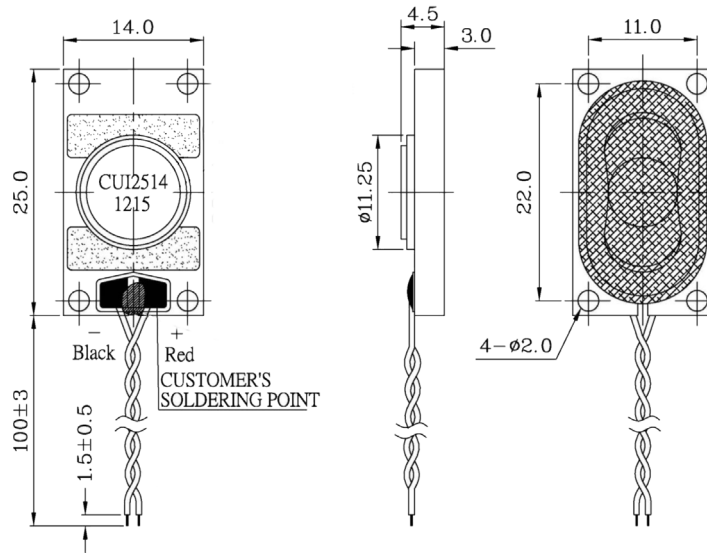
6 = Molex housing 51021-0200

## MECHANICAL DRAWING

units: mm

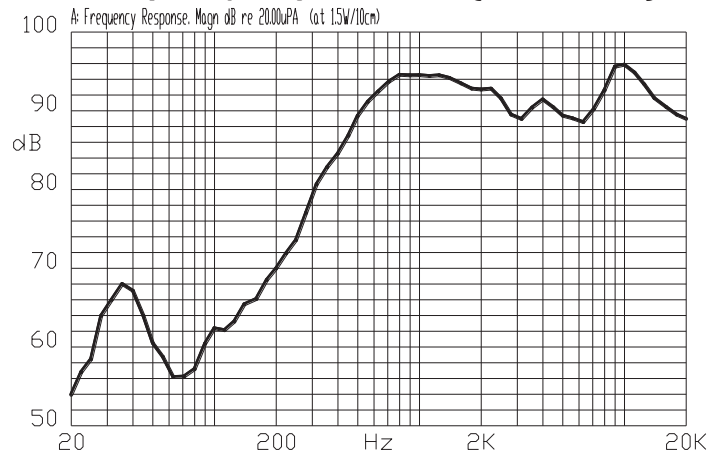
tolerance:  $\pm 0.2$  mm

wire: UL1571 LF 30 AWG

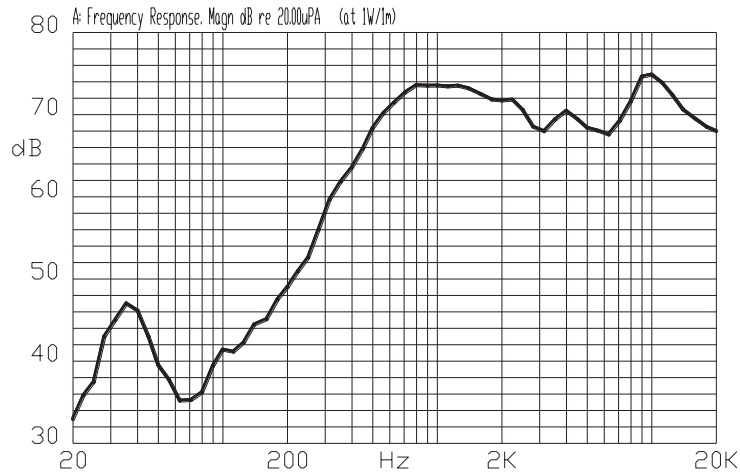


## FREQUENCY RESPONSE CURVES

### Frequency Response Curve (1.5 W, 0.1m)



### Frequency Response Curve (1.0 W, 1.0m)



## REVISION HISTORY

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| rev. | description             | date       |
|------|-------------------------|------------|
| 1.0  | initial release         | 04/28/2015 |
| 1.01 | updated datasheet       | 07/23/2015 |
| 1.02 | added connector options | 07/15/2016 |

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



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

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