

**MODEL:** CDS-25148 | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- small footprint
- rated 1.5 W

**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                             | 91  | 94   | 97     | dB                 |
|                         | at 1.0 W, 1.0 m ave, at 1.0, 1.2, 1.5, 2.0 kHz                             | 70  | 73   | 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 x 14.0 x 4.5                                                            |     |      |        | mm                 |
| magnet                  | Nd-Fe-B, $\varnothing 6.8 \times 1.5$                                      |     |      |        | mm                 |
| material                | ABS UL-94 1/16" HB (black)                                                 |     |      |        |                    |
| cone material           | cloth                                                                      |     |      |        |                    |
| terminal                | solder pads                                                                |     |      |        |                    |
| weight                  |                                                                            |     | 1.72 |        | g                  |
| operating temperature   |                                                                            | -20 |      | 55     | $^{\circ}\text{C}$ |
| storage temperature     |                                                                            | -30 |      | 70     | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                                        |     |      |        |                    |

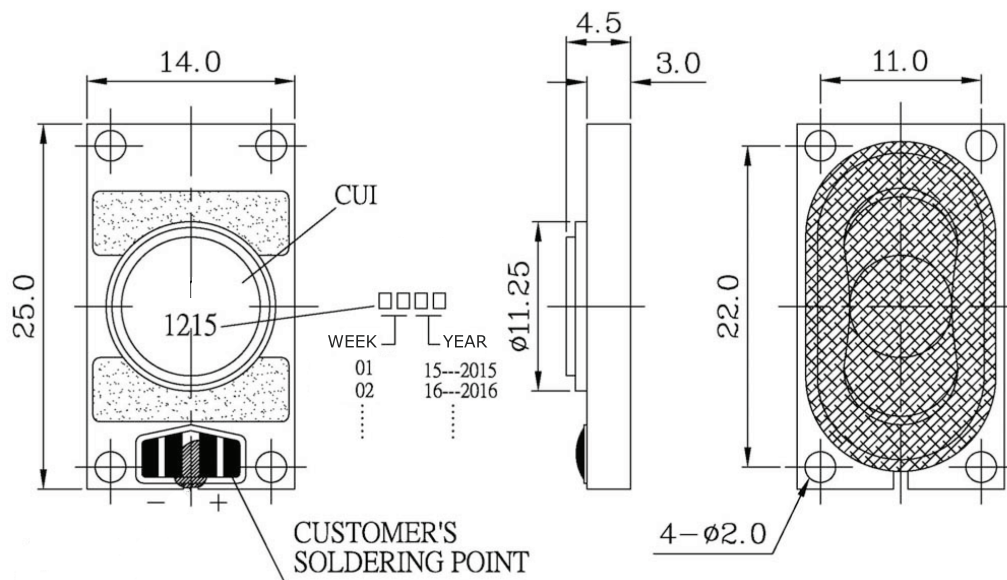
Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$ , humidity at 45-85%, under 86-106kPa pressure, unless otherwise noted.

**SOLDERABILITY**

| parameter      | conditions/description        | min | typ | max | units              |
|----------------|-------------------------------|-----|-----|-----|--------------------|
| hand soldering | for maximum 3 $\pm 1$ seconds | 360 | 370 | 380 | $^{\circ}\text{C}$ |

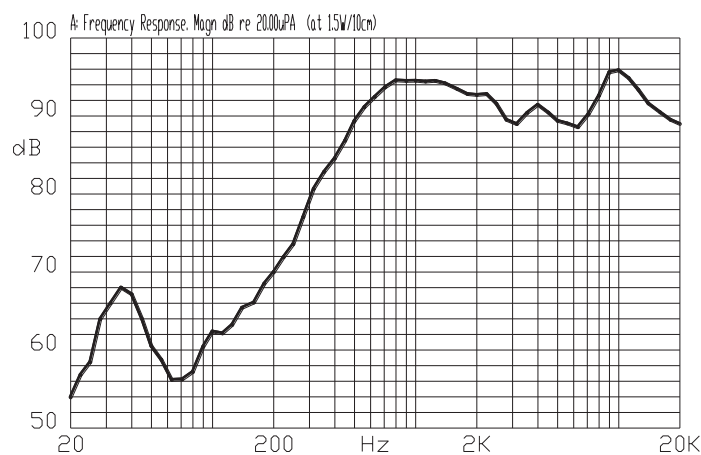
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.3$  mm

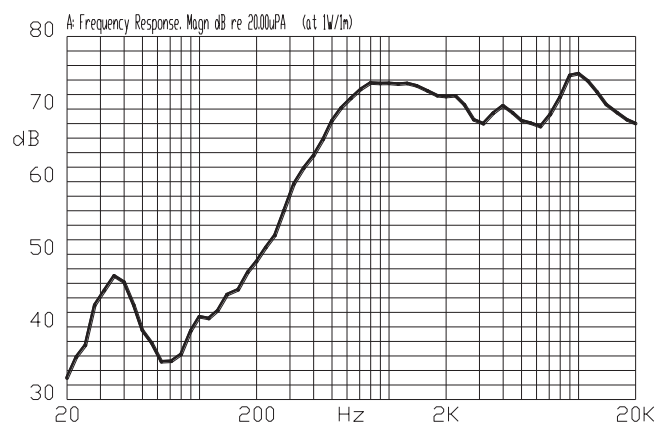


## FREQUENCY RESPONSE CURVES

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



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



## PACKAGING

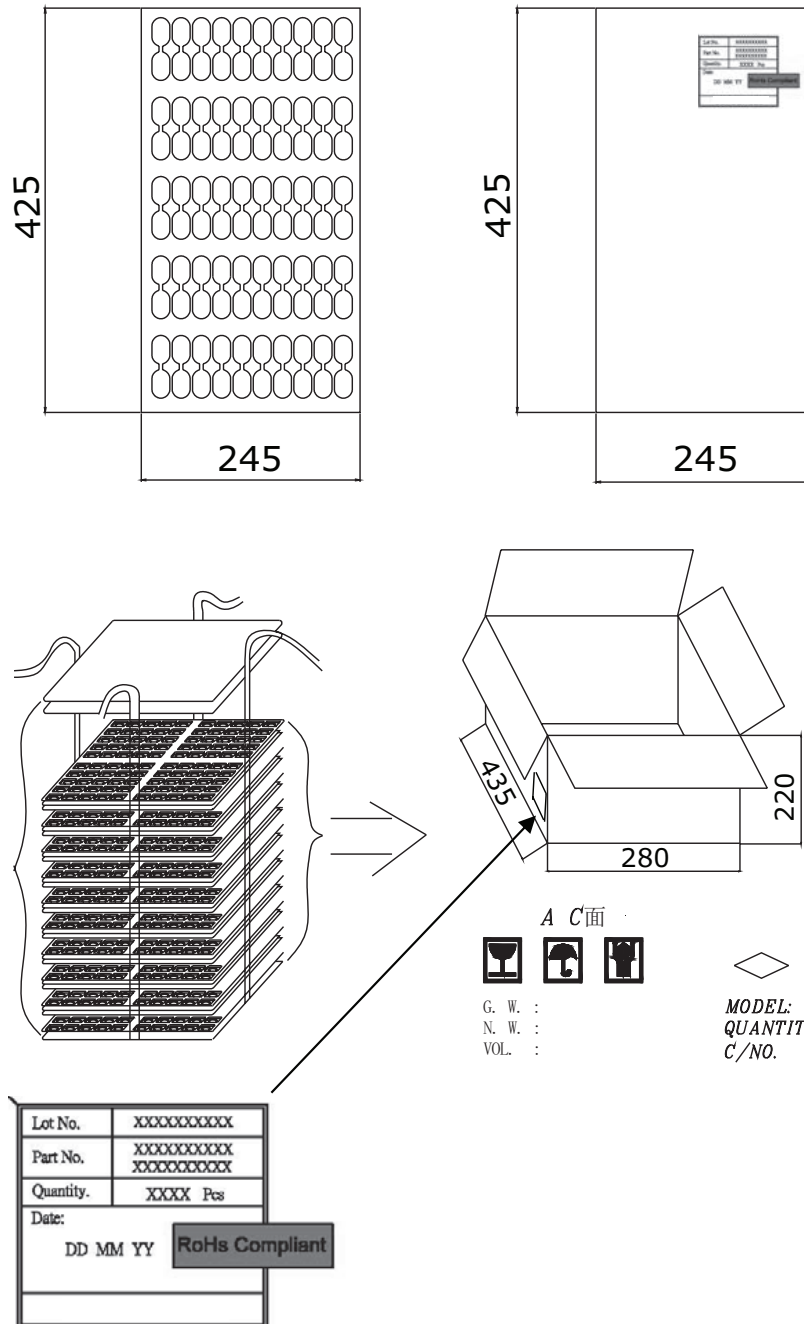
units: mm

Tray Size: 425 x 245 x 11 mm

Carton Size: 435 x 280 x 220 mm

Tray QTY: 100 pcs per tray

Carton QTY: 2,000 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 04/28/2015 |
| 1.01 | updated datasheet            | 07/23/2015 |
| 1.02 | brand update                 | 01/22/2020 |
| 1.03 | modified solder pads         | 12/16/2020 |
| 1.04 | logo, datasheet style update | 08/05/2022 |

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



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