

MODEL: CMS-3520-18N

| DESCRIPTION: SPEAKER

FEATURES

- micro-speaker
- 85 dB
- rated 1.0 W



SPECIFICATIONS

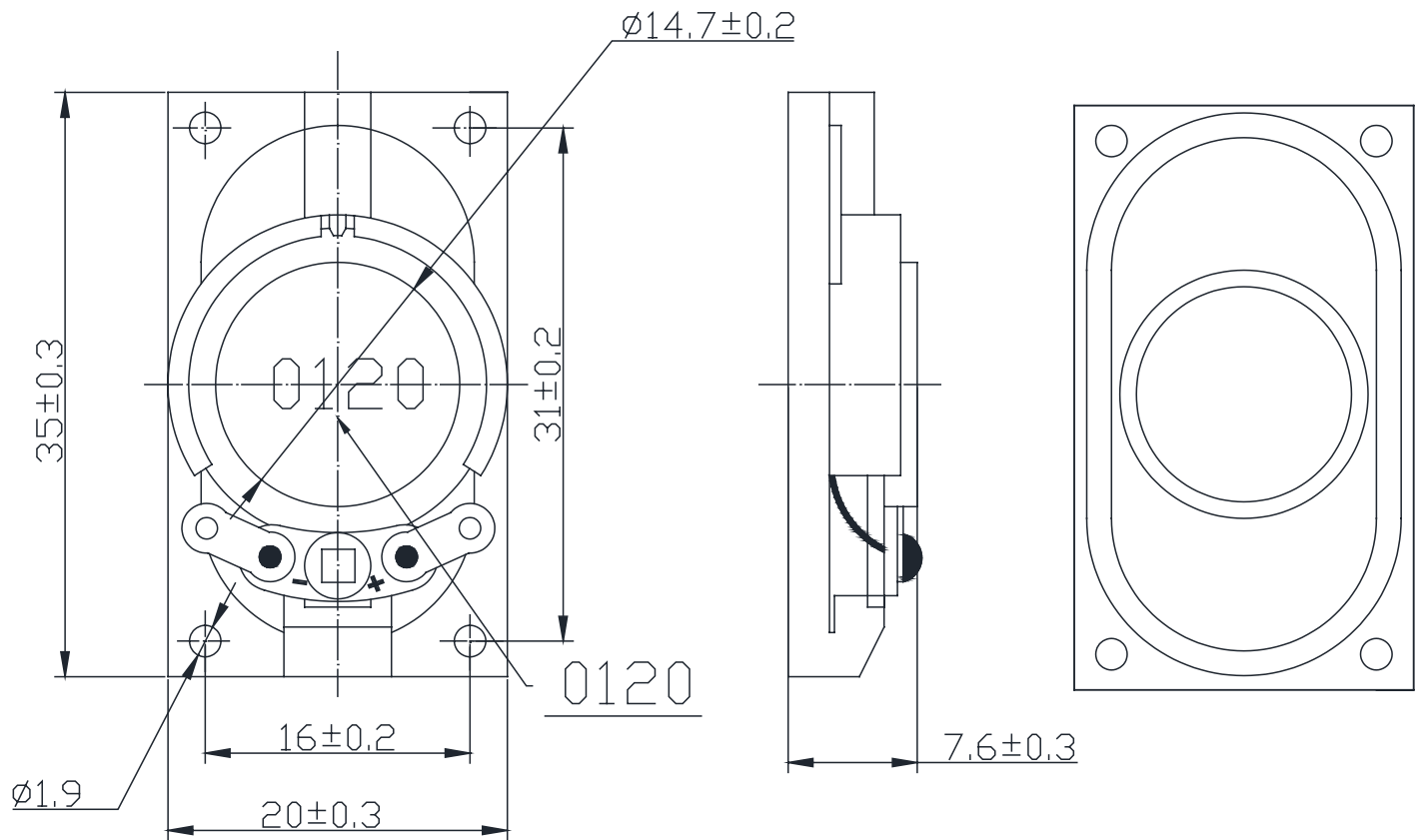
| parameter               | conditions/description                                    | min | typ | max    | units    |
|-------------------------|-----------------------------------------------------------|-----|-----|--------|----------|
| input power             | max power: 50 second on, 120 seconds off, 10 cycles       |     | 1.0 | 1.5    | W        |
| impedance               | at 2.0 kHz, 1.0 V                                         | 6.8 | 8   | 9.2    | $\Omega$ |
| resonant frequency (Fo) | at 1.0 V                                                  | 560 | 700 | 840    | Hz       |
| frequency response      |                                                           | F0  |     | 10,000 | Hz       |
| sound pressure level    | at 1.0 W, 50 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz            | 82  | 85  | 88     | dB       |
|                         | at 1.0 W, 10 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz            | 95  | 98  | 101    | dB       |
| distortion              | at 1.0 kHz, rated power                                   |     |     | 10     | %        |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range              |     |     | 2.83   | V        |
| polarity                | cone moves forward w/ positive dc current to “+” terminal |     |     |        |          |
| dimensions              | 35 x 20 x 7.6                                             |     |     |        | mm       |
| magnet                  | Nd-Fe-B                                                   |     |     |        |          |
| frame material          | ABS                                                       |     |     |        |          |
| cone material           | cloth                                                     |     |     |        |          |
| terminal                | solder terminals                                          |     |     |        |          |
| weight                  |                                                           |     | 5.8 |        | g        |
| operating temperature   |                                                           | -20 |     | 60     | °C       |
| storage temperature     |                                                           | -30 |     | 70     | °C       |
| hand soldering          | for maximum 3 seconds                                     | 370 | 380 | 390    | °C       |
| RoHS                    | yes                                                       |     |     |        |          |

Notes:

1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

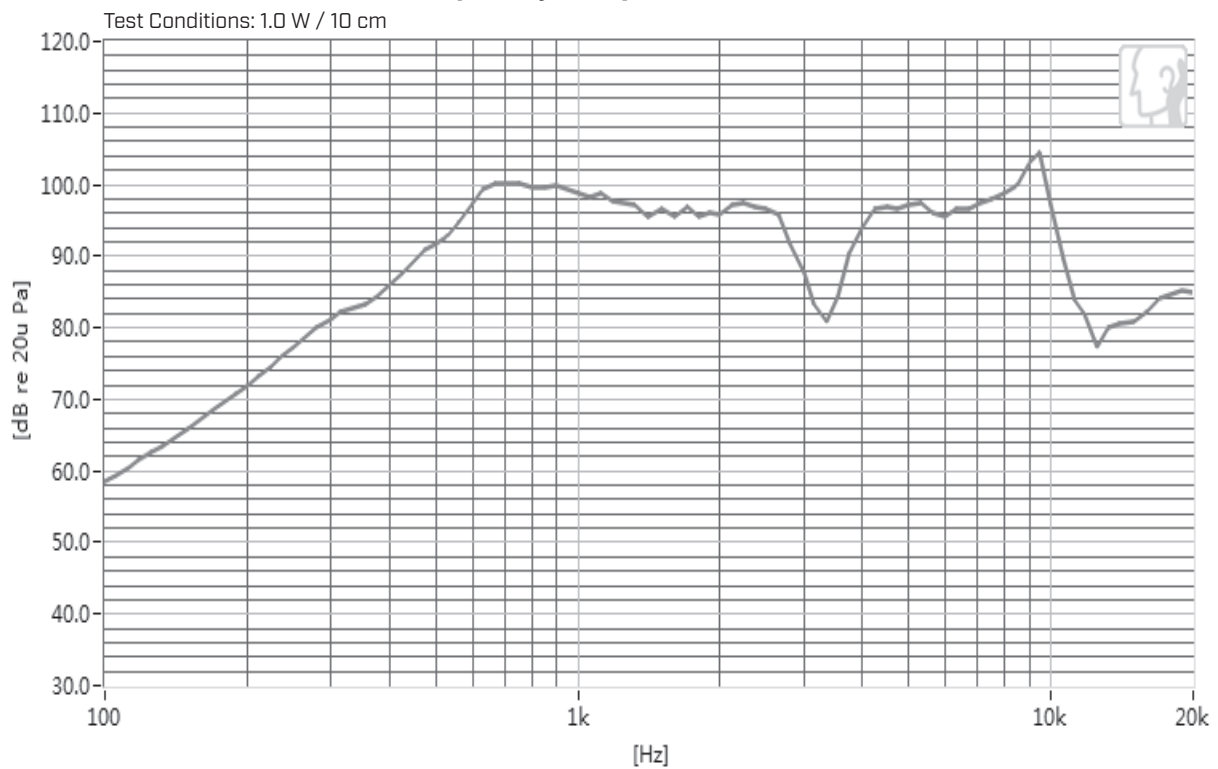
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.3$  mm

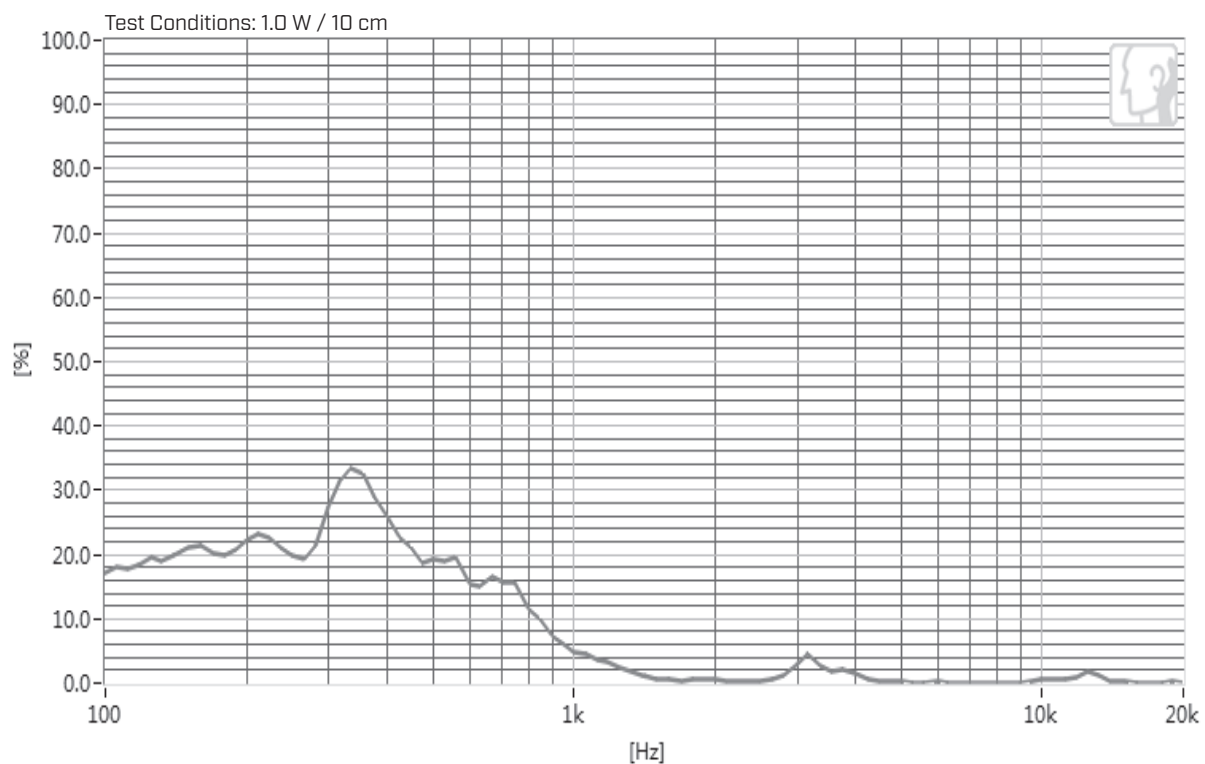


## RESPONSE CURVES

### Frequency Response Curve



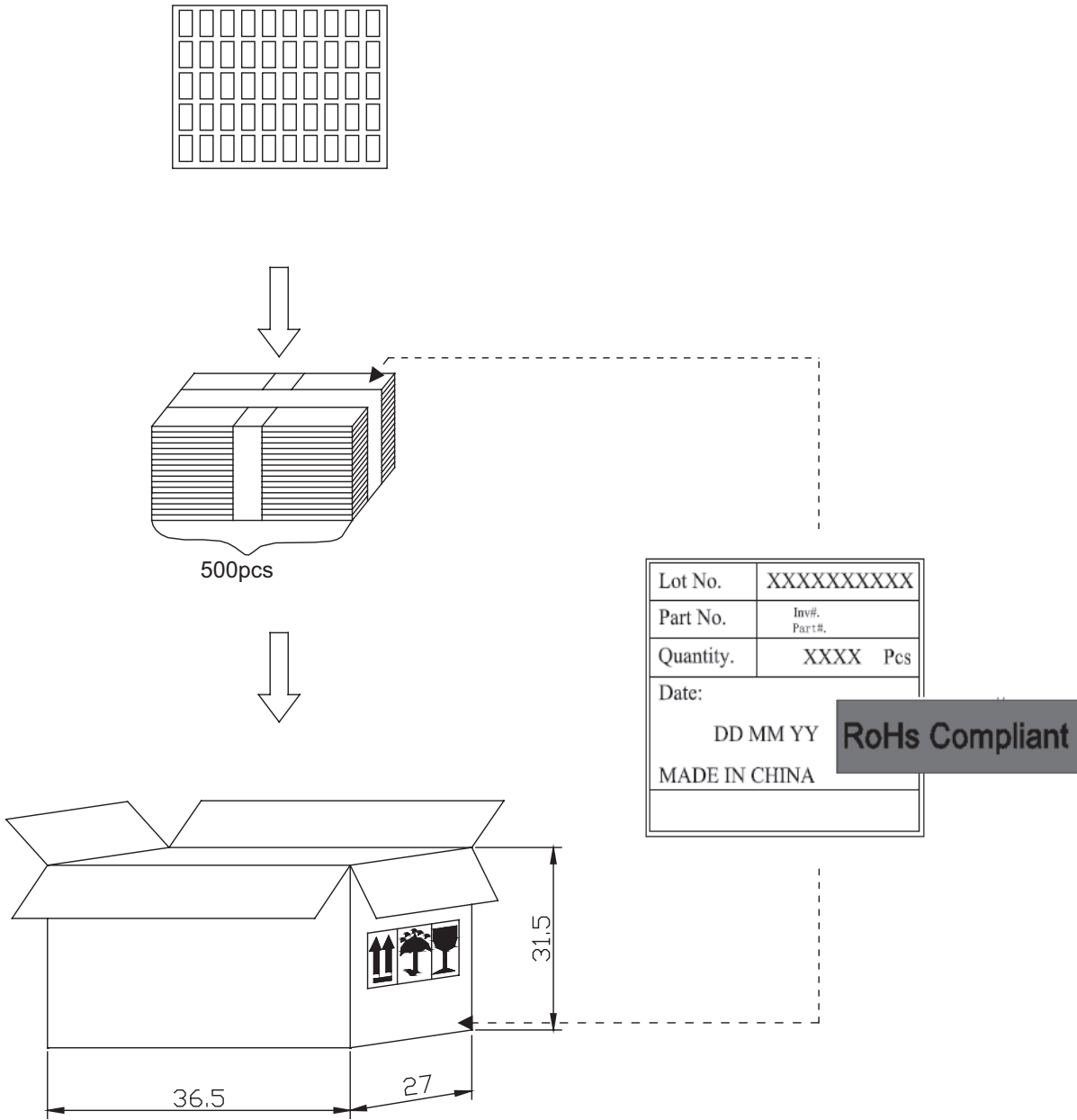
### Total Harmonic Distortion Curve



**PACKAGING**

units: mm

Tray QTY: 50 pcs per tray  
Carton Size: 365 x 270 x 315 mm  
Carton QTY: 1,000 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 09/16/2020 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/11/2024 |

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



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