



MODEL: CDS-4553-16-SP

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DESCRIPTION: SPEAKER

FEATURES

- 16 Ohm
- rated 1.0 W
- solder pads



SPECIFICATIONS

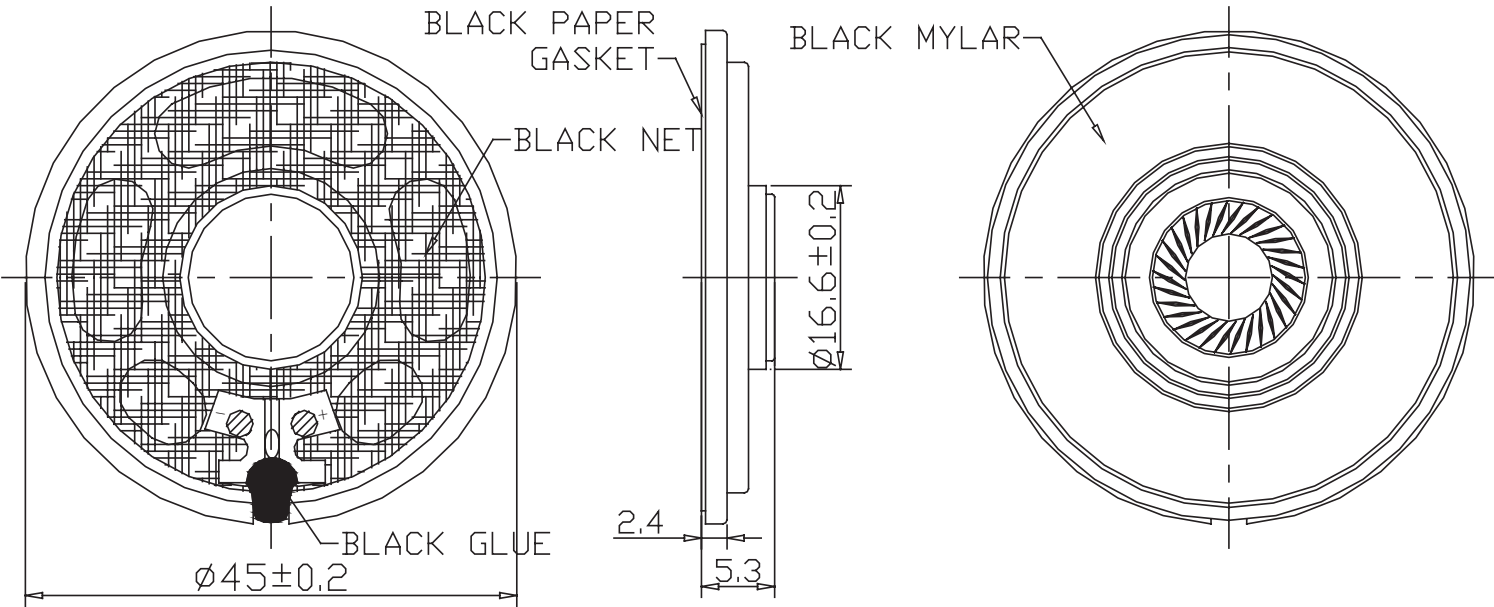
| parameter               | conditions/description                                    | min  | typ  | max   | units              |
|-------------------------|-----------------------------------------------------------|------|------|-------|--------------------|
| input power             | max power: 1 minute on, 2 minutes off, 10 cycles          |      | 1.0  | 2.0   | W                  |
| impedance               | at 2.0 kHz, 1.0 V                                         | 13.6 | 16   | 18.4  | $\Omega$           |
| resonant frequency [Fo] | at 1.0 V                                                  | 400  | 500  | 600   | Hz                 |
| frequency response      |                                                           | Fo   |      | 6,000 | Hz                 |
| sound pressure level    | in baffleboard                                            |      |      |       |                    |
|                         | at 0.1 W, 0.1 m, avg at 0.6, 0.8, 1.0, 1.2 kHz            | 87   | 90   | 93    | dB                 |
|                         | at 1.0 W, 1.0 m, avg at 0.6, 0.8, 1.0, 1.2 kHz            | 77   | 80   | 83    | dB                 |
| distortion              | at 1.0 kHz, rated power                                   |      |      | 10    | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, between Fo ~ 6,000 Hz        |      |      | 4.0   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |      |       |                    |
| dimensions              | $\varnothing 45 \times 5.3$                               |      |      |       | mm                 |
| magnet                  | Nd-Fe-B                                                   |      |      |       |                    |
| frame material          | SPCC                                                      |      |      |       |                    |
| cone material           | PET (black)                                               |      |      |       |                    |
| terminal                | solder pads                                               |      |      |       |                    |
| weight                  |                                                           |      | 10.2 |       | g                  |
| operating temperature   |                                                           | -30  |      | 60    | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -30  |      | 60    | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 2 seconds                                     |      |      | 380   | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                       |      |      |       |                    |

Notes:

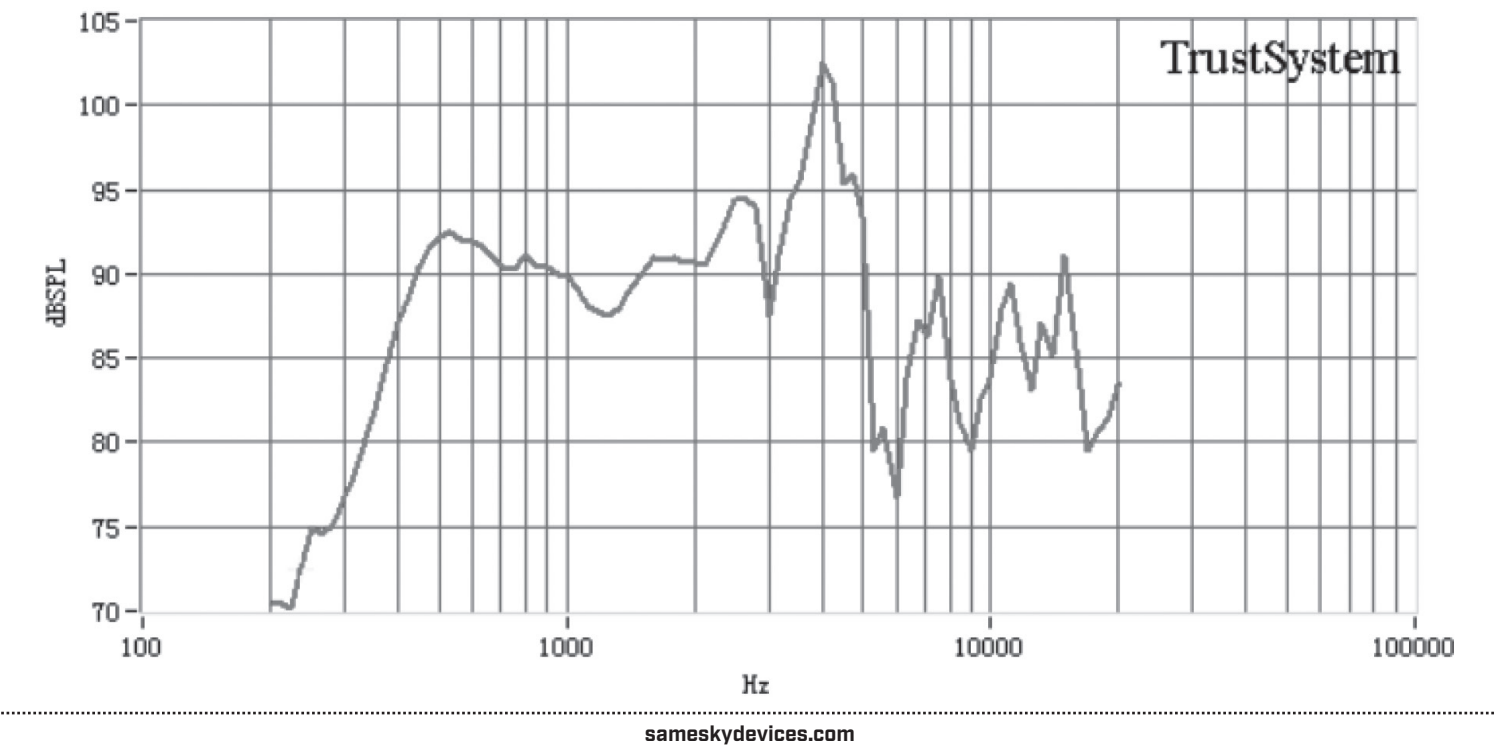
1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm  
tolerance: ±0.3 mm



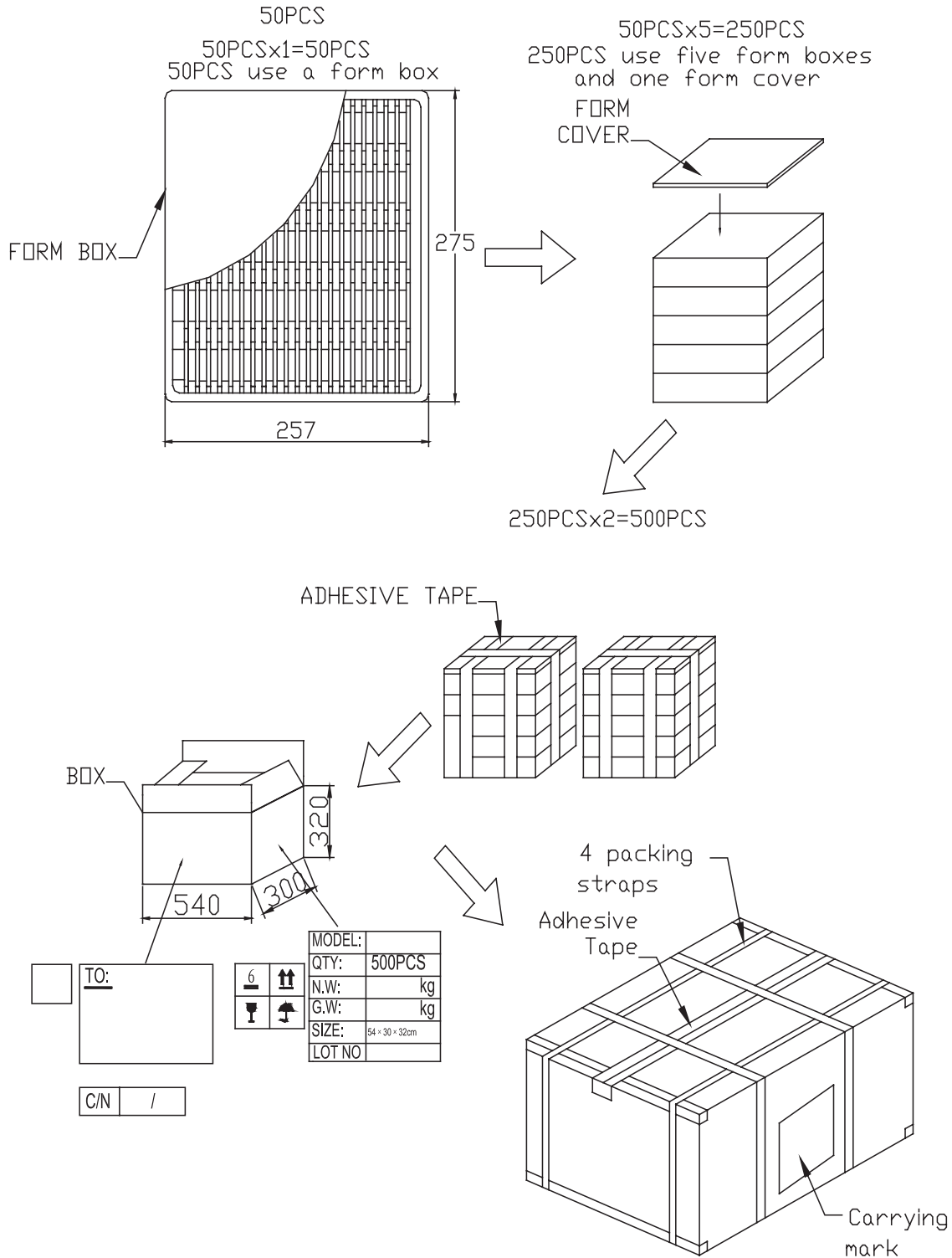
FREQUENCY RESPONSE CURVE



## PACKAGING

units: mm

Tray Size: 275 x 257 mm  
Tray QTY: 50 pcs per tray  
Carton Size: 540 x 300 x 320 mm  
Carton QTY: 500 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 11/22/2021 |
| 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.



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

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