

**MODEL:** CMS-4052-0550SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 50 ohm
- rated 0.5 W
- solder pads

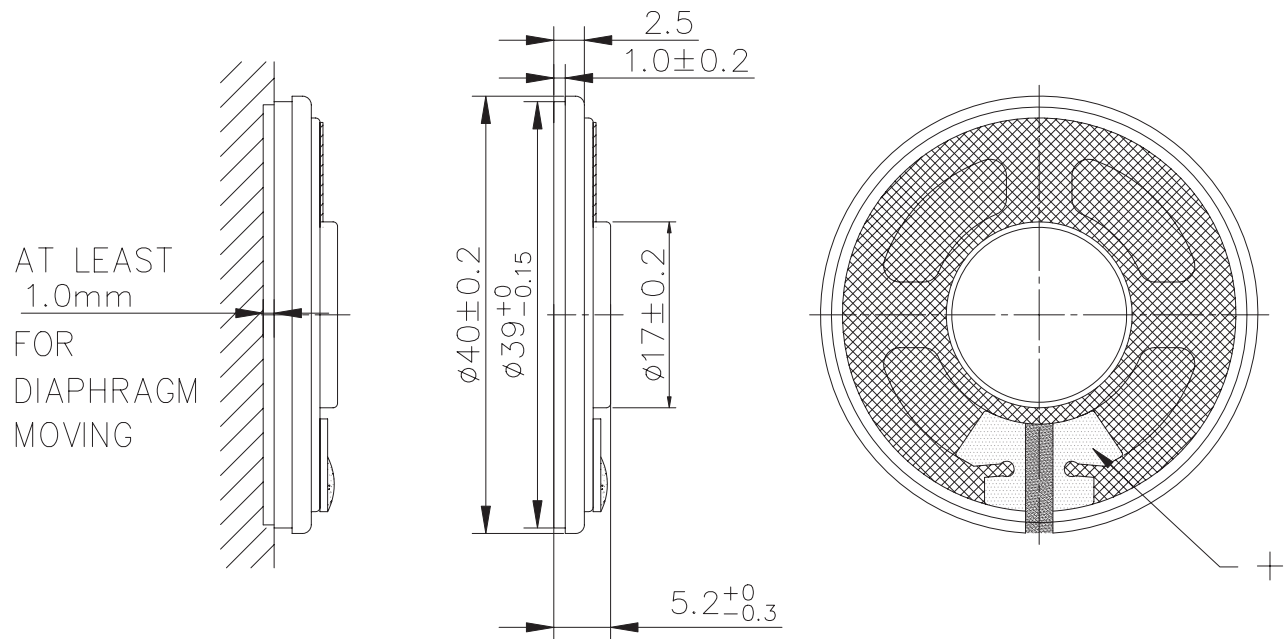
**SPECIFICATIONS**

| parameter               | conditions/description                                    | min  | typ | max   | units              |
|-------------------------|-----------------------------------------------------------|------|-----|-------|--------------------|
| input power             |                                                           |      | 0.5 | 1.0   | W                  |
| impedance               |                                                           | 42.5 | 50  | 57.5  | $\Omega$           |
| resonant frequency (Fo) |                                                           | 280  | 350 | 420   | Hz                 |
| frequency response      |                                                           | Fo   |     | 3,600 | Hz                 |
| sound pressure level    | at 1.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz               | 87   | 90  | 93    | dB                 |
| distortion              | at 1.0 kHz, 1.0 W, 50 cm                                  |      |     | 3     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range              |      |     | 5.0   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |     |       |                    |
| dimensions              | $\varnothing 40 \times 5.2$                               |      |     |       | mm                 |
| magnet                  | Nd-Fe-B                                                   |      |     |       |                    |
| frame material          | iron                                                      |      |     |       |                    |
| cone material           | PEN                                                       |      |     |       |                    |
| terminal                | solder pads                                               |      |     |       |                    |
| weight                  |                                                           |      | 9.3 |       | g                  |
| operating temperature   |                                                           | -20  |     | 55    | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -25  |     | 60    | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 2 seconds                                     | 360  |     | 380   | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                       |      |     |       |                    |

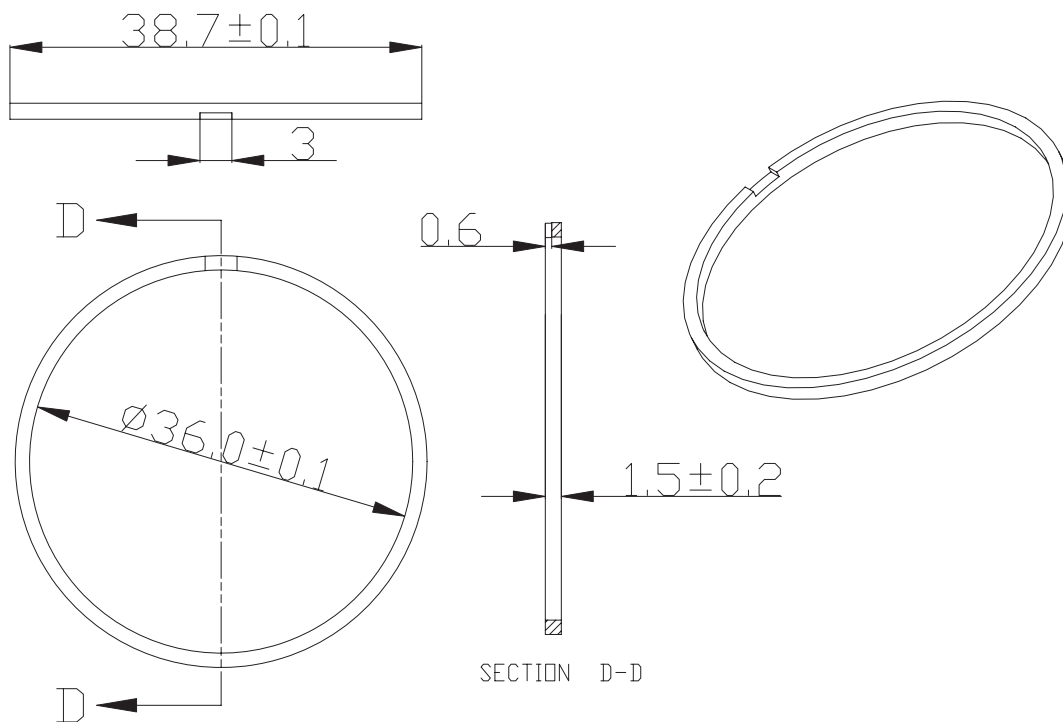
Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$ , humidity at 25~75%, unless otherwise noted.

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm



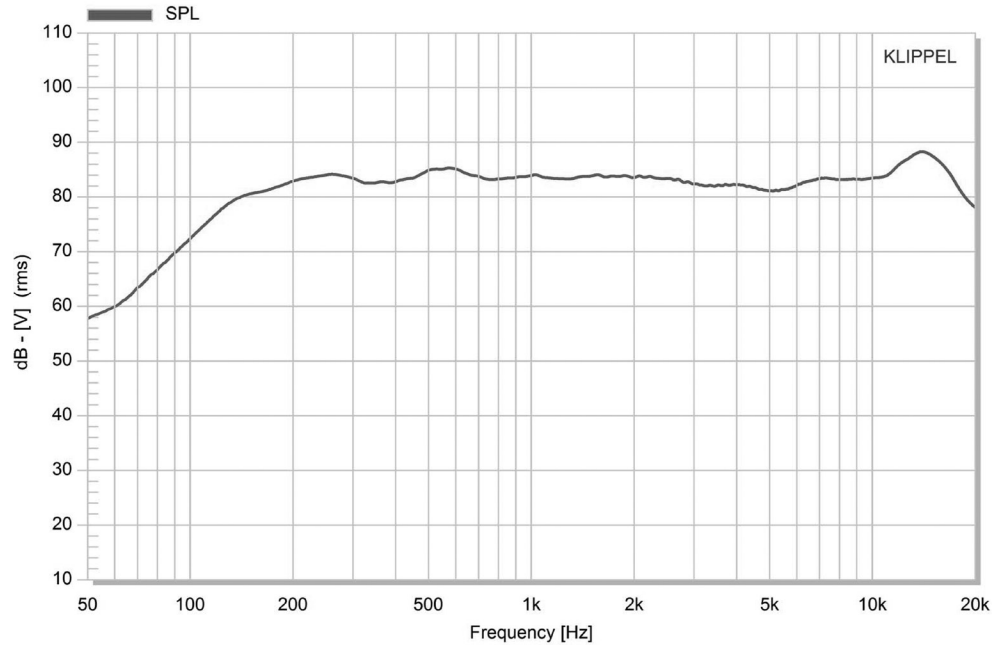
## GASKET



RESPONSE CURVES

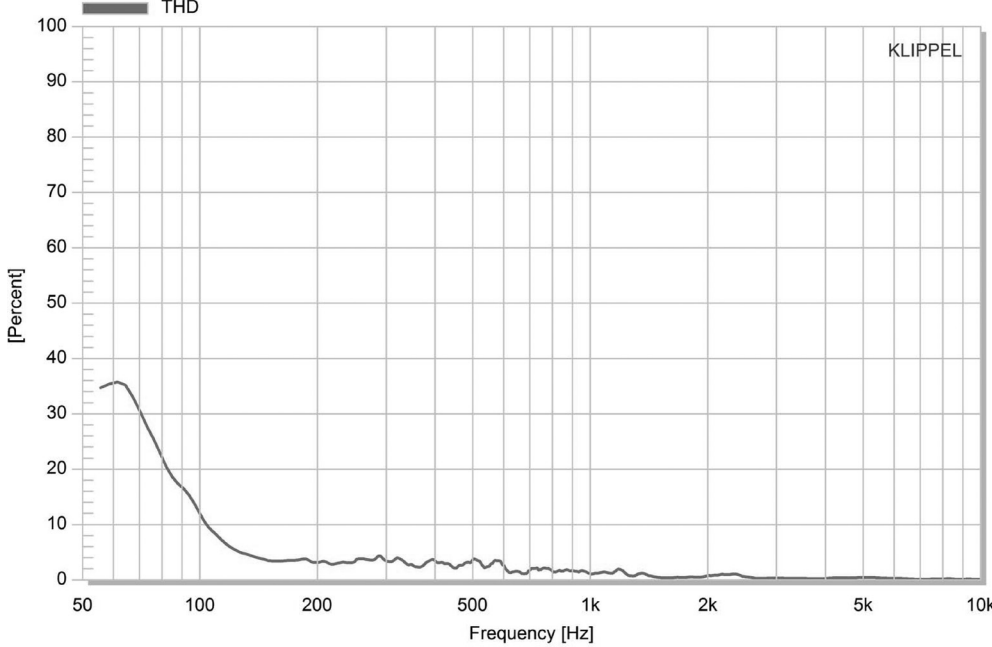
Frequency Response Curve

Test Conditions: 7.07 V / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 7.07 V / 50 cm



THIELE-SMALL PARAMETERS

| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 3.071  |
| Electrical Q Factor          | Qes                    | 2.412  |
| Total Q Factor               | Qts                    | 1.351  |
| Compliance Equivalent Volume | Vas                    | 0.5082 |

Notes: 2. Results represent typical performance in Free Air conditions.

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 07/07/2023 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.02 | added Thiele-Small Parameters     | 01/30/2025 |

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



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