

**MODEL:** CMS-2005-254SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 4 ohm
- rated 2.5 W
- solder pads

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-------------------------|---|-----|-----|--------|--------------------|
| input power | sine wave in free air | | 2 | 2.5 | W |
| | square wave in 6 cc box | | 2 | 2.5 | W |
| impedance | | 3.4 | 4 | 4.6 | Ω |
| resonant frequency (Fo) | sine wave in free air | 400 | 500 | 600 | Hz |
| | square wave in 6 cc box | 520 | 650 | 780 | Hz |
| frequency response | | Fo | | 20,000 | Hz |
| sound pressure level | at 1.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz | 79 | 82 | 85 | dB |
| distortion | at 1.0 kHz, 1.0 W, 50 cm | | | 5 | % |
| 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 | $\varnothing 20 \times 5$ | | | | mm |
| magnet | Nd-Fe-B | | | | |
| frame material | PBT + 15% GF | | | | |
| cone material | foam + PEI | | | | |
| terminal | solder pads | | | | |
| weight | | | 4 | | 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 | | | | |

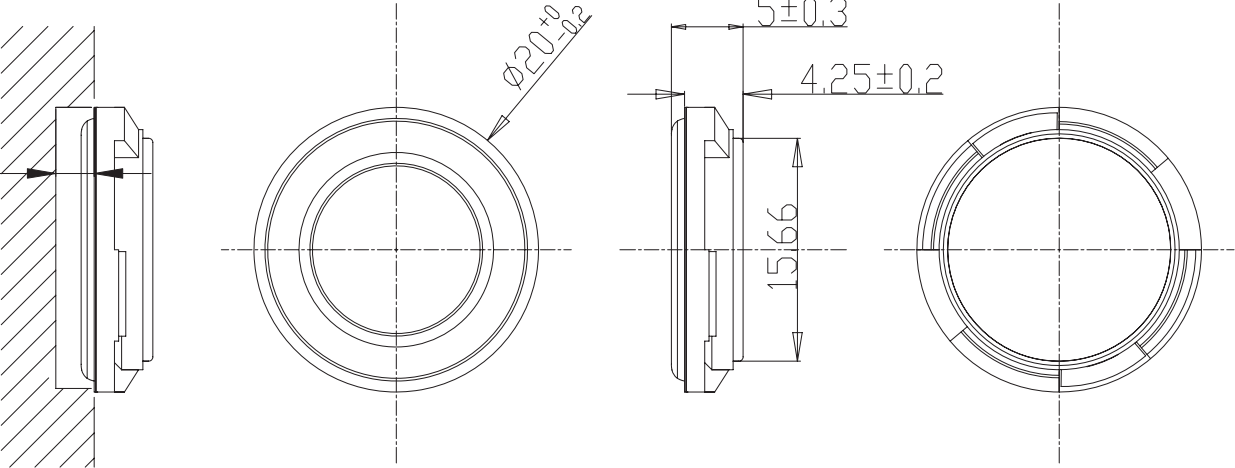
Notes: 1. All specifications measured at 15-35 $^{\circ}\text{C}$, humidity at 25-75%, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

MOUNTING NOTICE

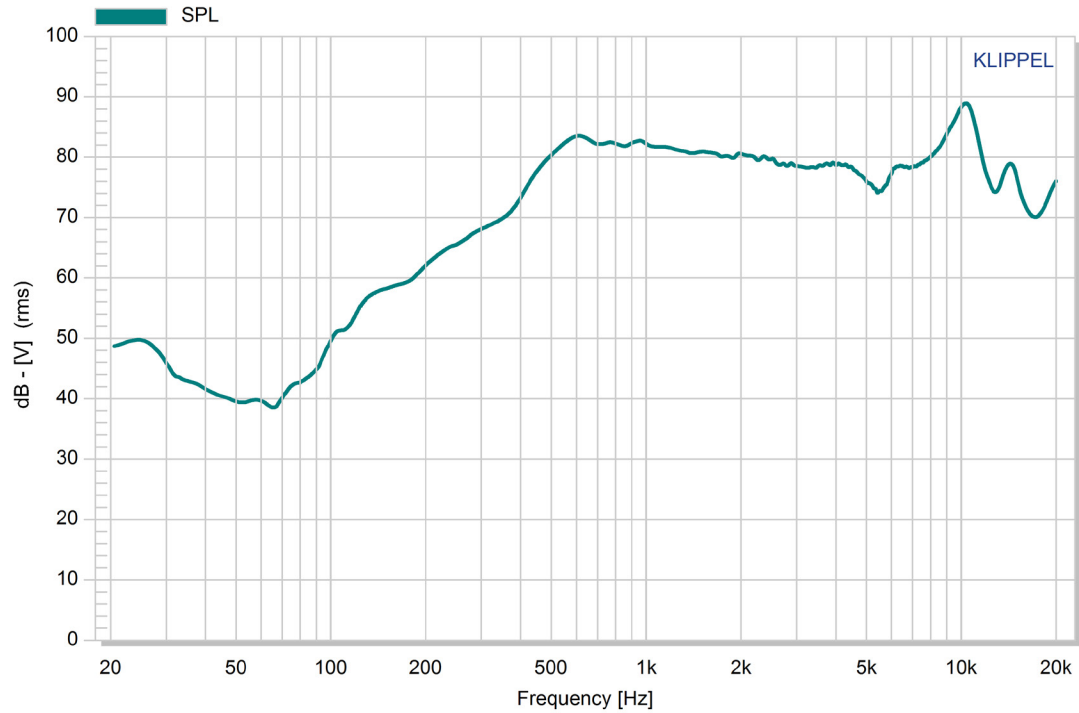
AT LEAST
FOR 1.2mm
DIAPHRAGM
MOVING



RESPONSE CURVES (ON BAFFLE)

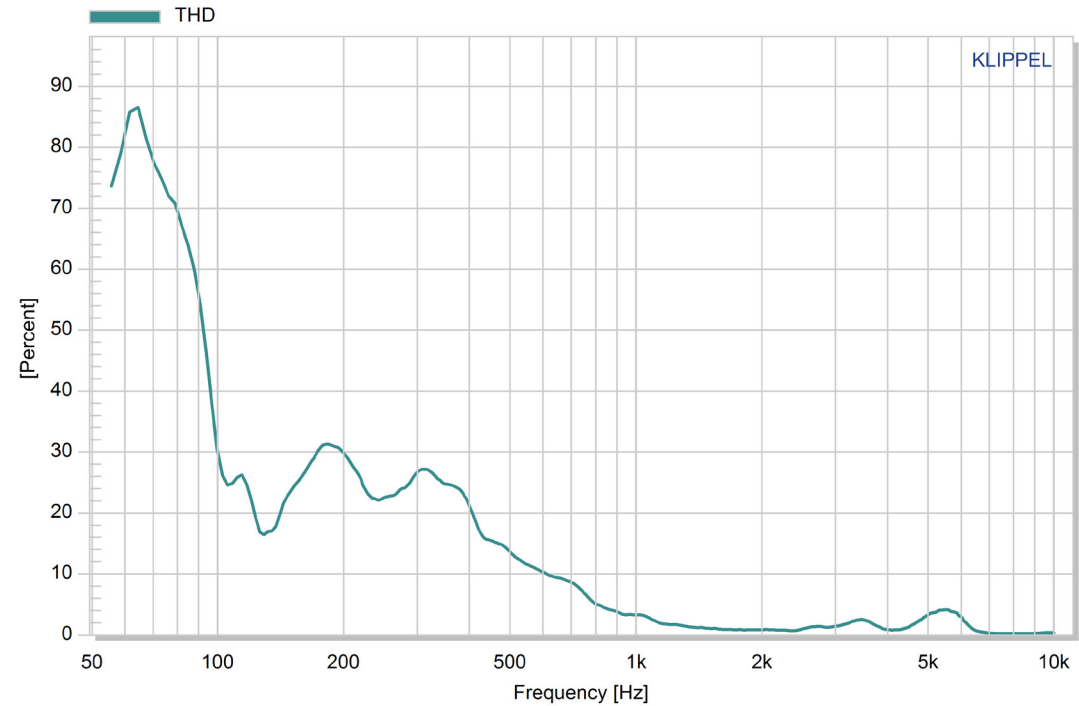
Frequency Response Curve

Test Conditions: 1.0 W / 50 cm



Total Harmonic Distortion Curve

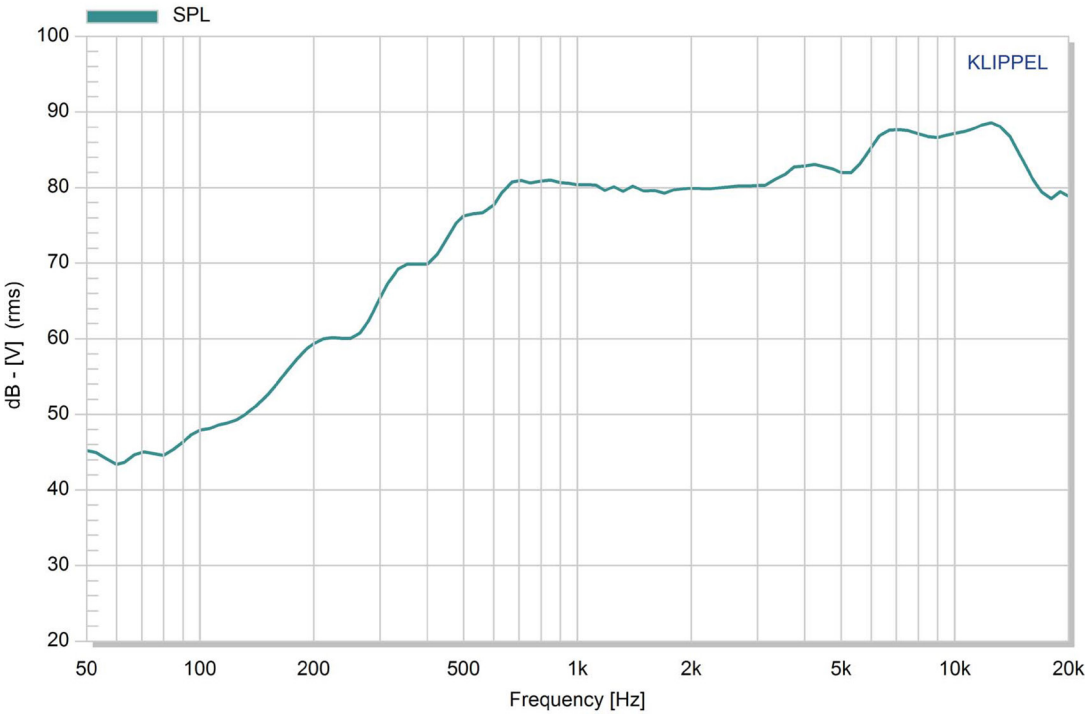
Test Conditions: 1.0 W / 50 cm



RESPONSE CURVES (6cc BOX IN FREE AIR)

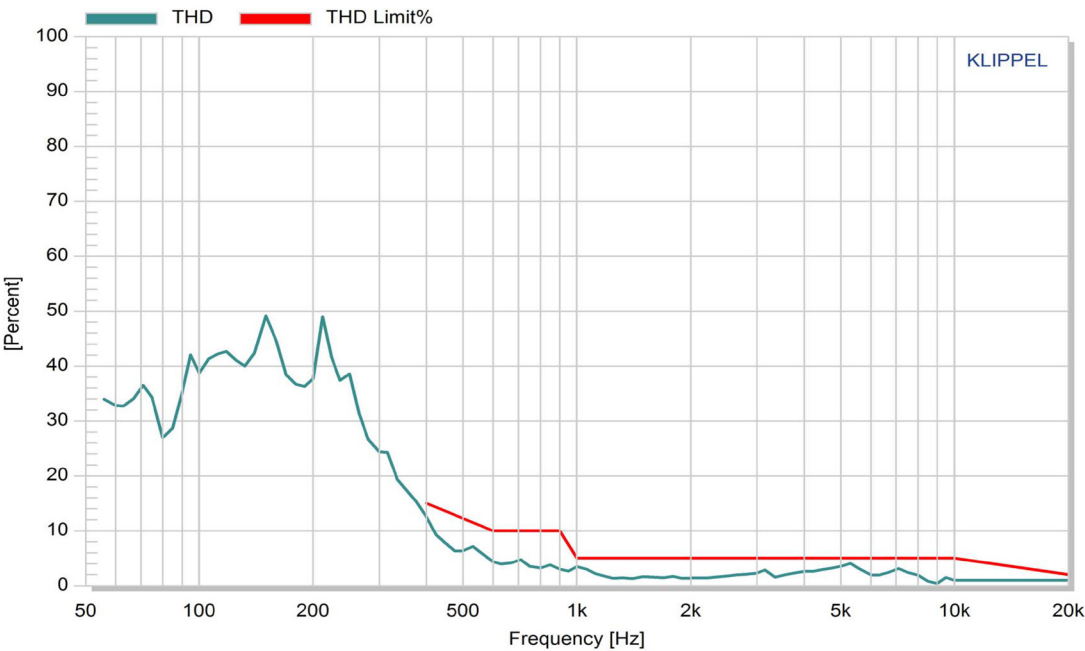
Frequency Response Curve

Test Conditions: 1.0 W / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 1.0 W / 50 cm



REVISION HISTORY

| rev. | description | date |
|------|-----------------------------------|------------|
| 1.0 | initial release | 07/11/2023 |
| 1.01 | 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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

sameskydevices.com