

MODEL: CMS-201438-058S | **DESCRIPTION:** SPEAKER**FEATURES**

- spring leaf contact
- 8 Ω impedance
- rated 0.5 W

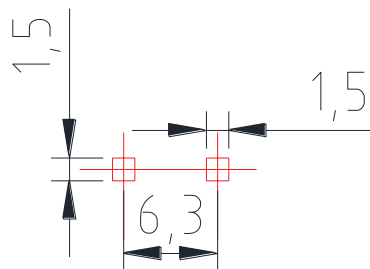
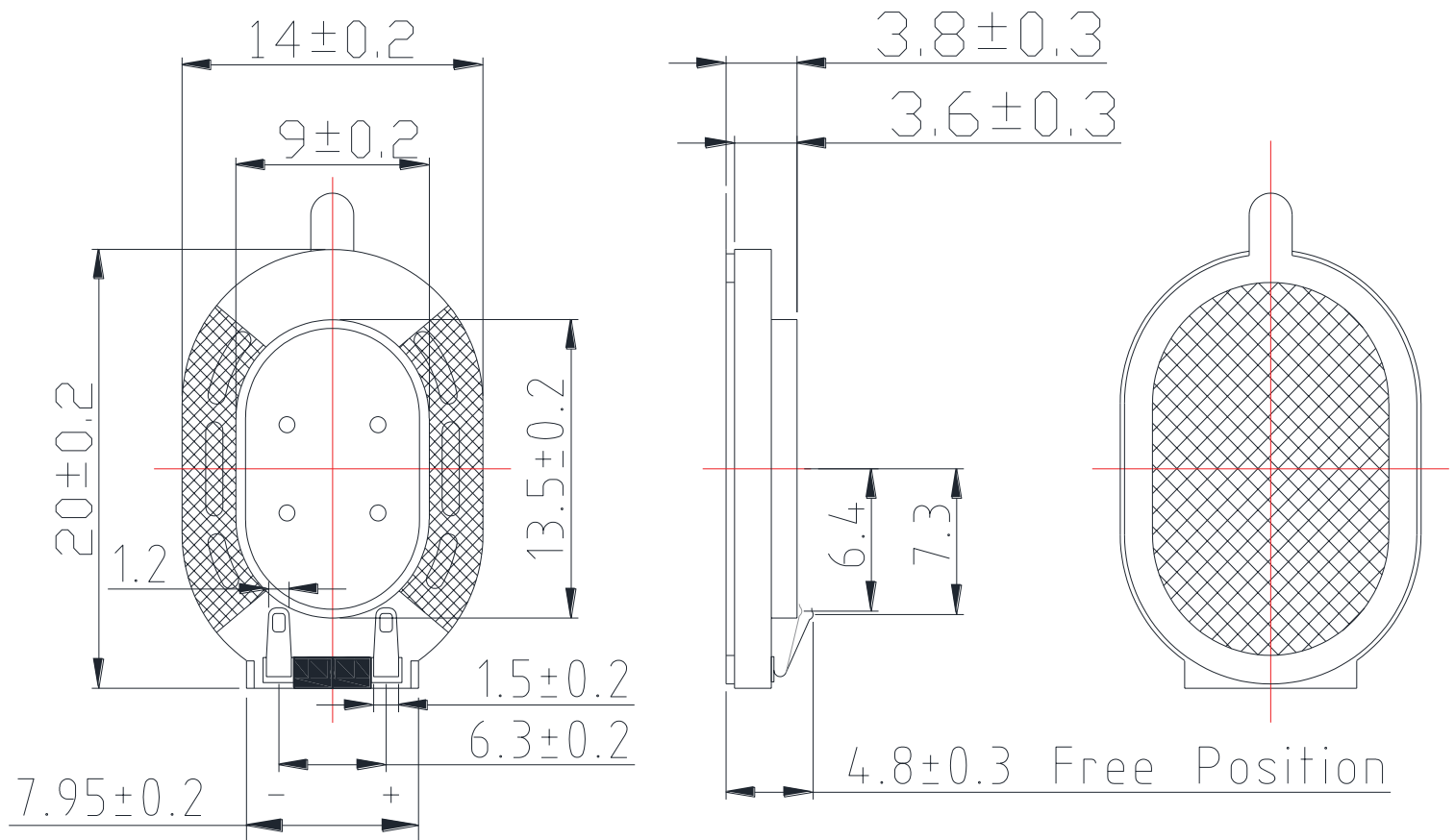
**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-------------------------|---|-----|-----|--------|--------------|
| input power | max power: IEC-60268-5, filter 60 seconds on/120 seconds off, 10 cycles at room temperature | | 0.5 | 1.0 | W |
| impedance | at 2.0 kHz | 6.8 | 8 | 9.2 | Ω |
| resonant frequency (Fo) | at 1.0 V | 640 | 800 | 960 | Hz |
| frequency response | | Fo | | 20,000 | Hz |
| sound pressure level | at 0.5 W, 10 cm, avg at 2.0 kHz | 90 | 93 | 96 | dB |
| distortion | at 1.0 kHz, 0.1 W | | | 10 | % |
| buzz, rattle, etc. | must be normal at sine wave, between Fo~20 kHz | | | 2.0 | V |
| polarity | cone moves forward w/ positive dc current to "+" terminal | | | | |
| dimensions | 20.0 x 14.0 x 3.8 | | | | mm |
| magnet | Nd-Fe-B | | | | |
| frame material | PBT | | | | |
| cone material | PEN | | | | |
| terminal | spring terminals | | | | |
| weight | | | 1.6 | | g |
| operating temperature | | -30 | | 70 | $^{\circ}$ C |
| storage temperature | | -40 | | 80 | $^{\circ}$ C |
| RoHS | yes | | | | |

Notes: 1. All specifications measured at 15-35 $^{\circ}$ C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm
 tolerance: ± 0.5 mm
 unless otherwise specified

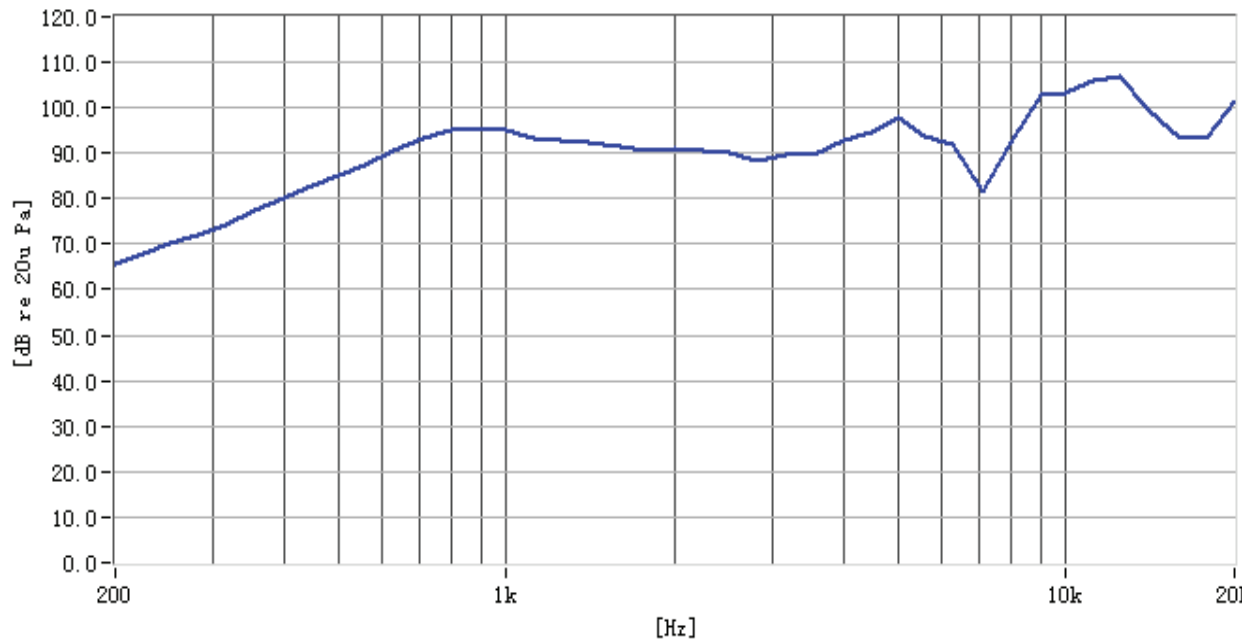


Recommended PCB Layout
 Top View

RESPONSE CURVES

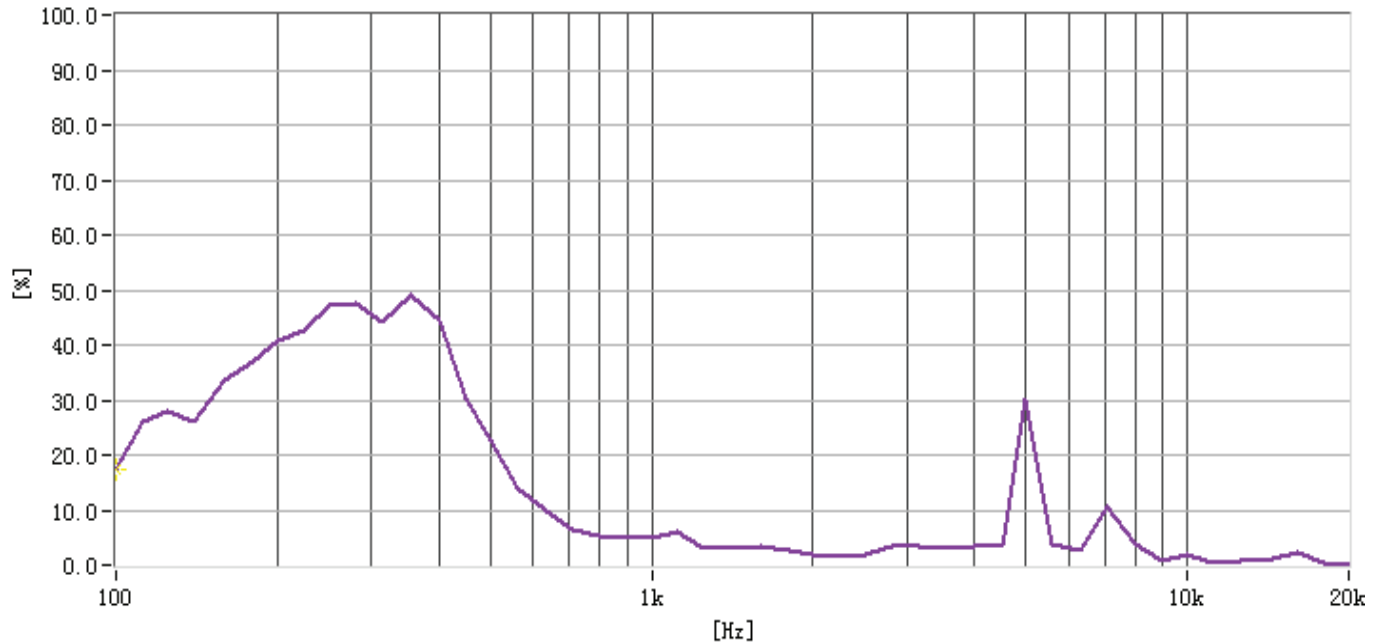
Frequency Response Curve

Test Conditions: 0.5 W / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 0.1 W / 10 cm



THIELE-SMALL PARAMETERS

| parameter | conditions/description | typ |
|------------------------------|------------------------|--------|
| Mechanical Q Factor | Qms | 2.231 |
| Electrical Q Factor | Qes | 9.647 |
| Total Q Factor | Qts | 1.812 |
| Compliance Equivalent Volume | Vas | 0.0025 |

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

REVISION HISTORY

| rev. | description | date |
|------|-----------------------------------|------------|
| 1.0 | initial release | 04/05/2024 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.02 | added Thiele-Small Parameters | 02/26/2025 |
| 1.03 | updated datasheet | 07/18/2025 |

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



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