

**MODEL:** CMSM-2811-24 | **DESCRIPTION:** SPEAKER**FEATURES**

- compatible with IEC 60601 applications
- frame includes mounting holes
- 93 dB @ 2 W/0.1 m

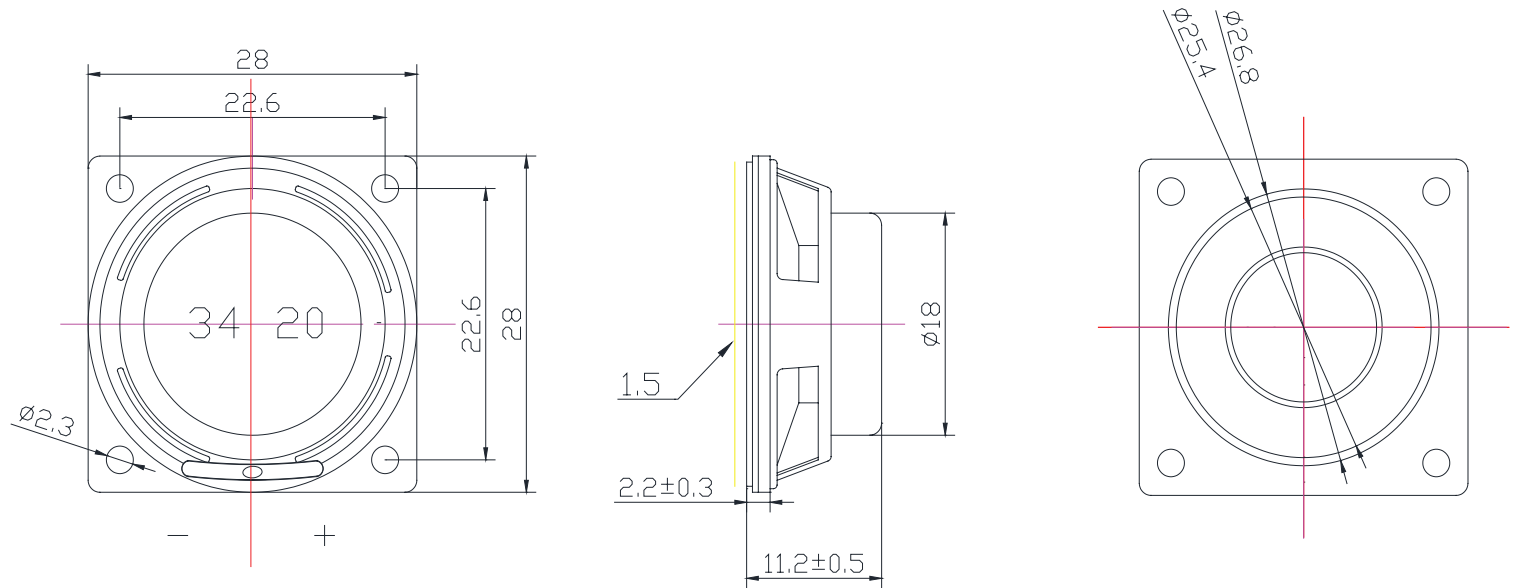
**SPECIFICATIONS**

| parameter               | conditions/description   | min | typ  | max    | units              |
|-------------------------|--|-----|------|--------|--------------------|
| input power             | max power: IEC-60268-5, filter 50 s on/120 s off, 10 cycles at room temp |     | 2.0  | 3.0    | W                  |
| impedance               | at 2.0 kHz, 1.0 V  | 3.4 | 4    | 4.6    | $\Omega$           |
| resonant frequency (Fo) | at 1.0 V   | 320 | 400  | 480    | Hz                 |
| frequency response      |  | Fo  |      | 20,000 | Hz                 |
| sound pressure level    | at 2.0 W, 0.1 m, avg at 0.8, 1.0, 1.2, 1.5 kHz                           | 90  | 93   | 96     | dB                 |
| distortion              | at 1.0 kHz, rated power  |     |      | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range Fo~5 kHz                    |     |      | 2.83   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal                |     |      |        |                    |
| dimensions              | 28 x 28 x 11.2   |     |      |        | mm                 |
| magnet                  | Nd-Fe-B  |     |      |        |                    |
| frame material          | SPCC   |     |      |        |                    |
| cone material           | Pu+paper   |     |      |        |                    |
| terminal                | solder eyelets   |     |      |        |                    |
| weight                  |  |     | 10.3 |        | g                  |
| operating temperature   |  | -25 |      | 60     | $^{\circ}\text{C}$ |
| storage temperature     |  | -25 |      | 60     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds  | 370 | 380  | 390    | $^{\circ}\text{C}$ |
| RoHS                    | yes  |     |      |        |                    |

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

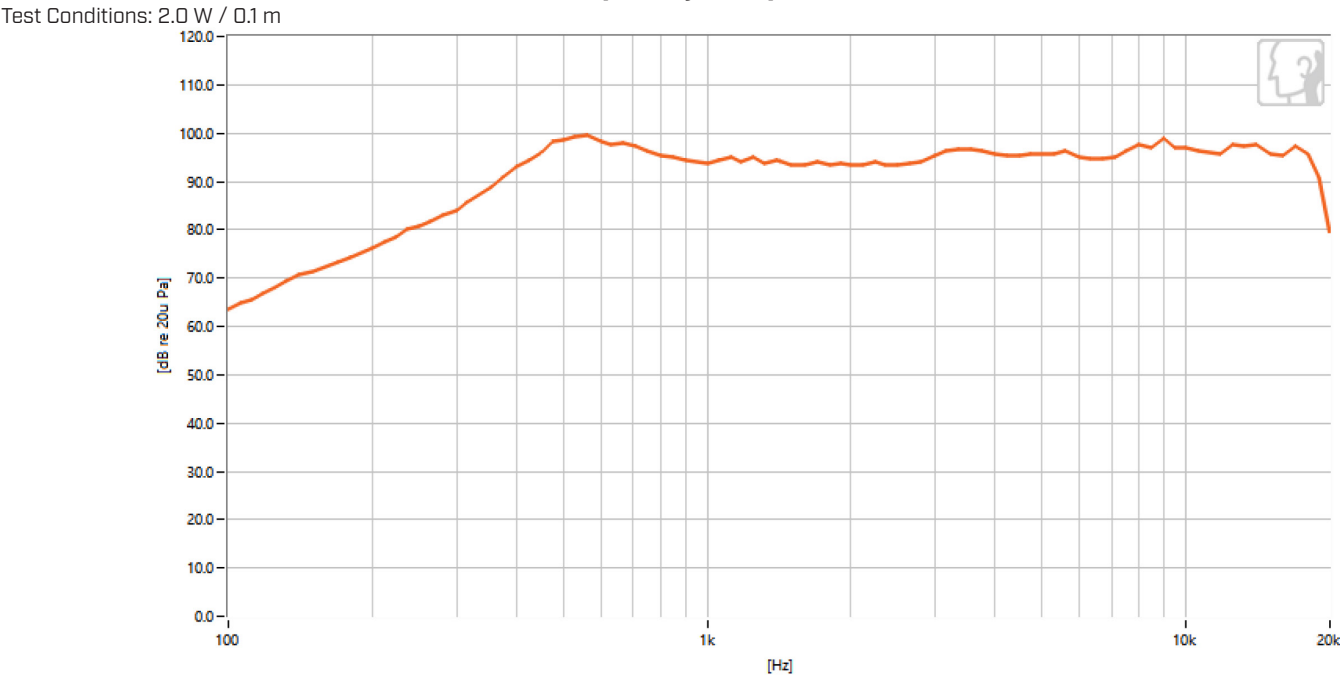
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

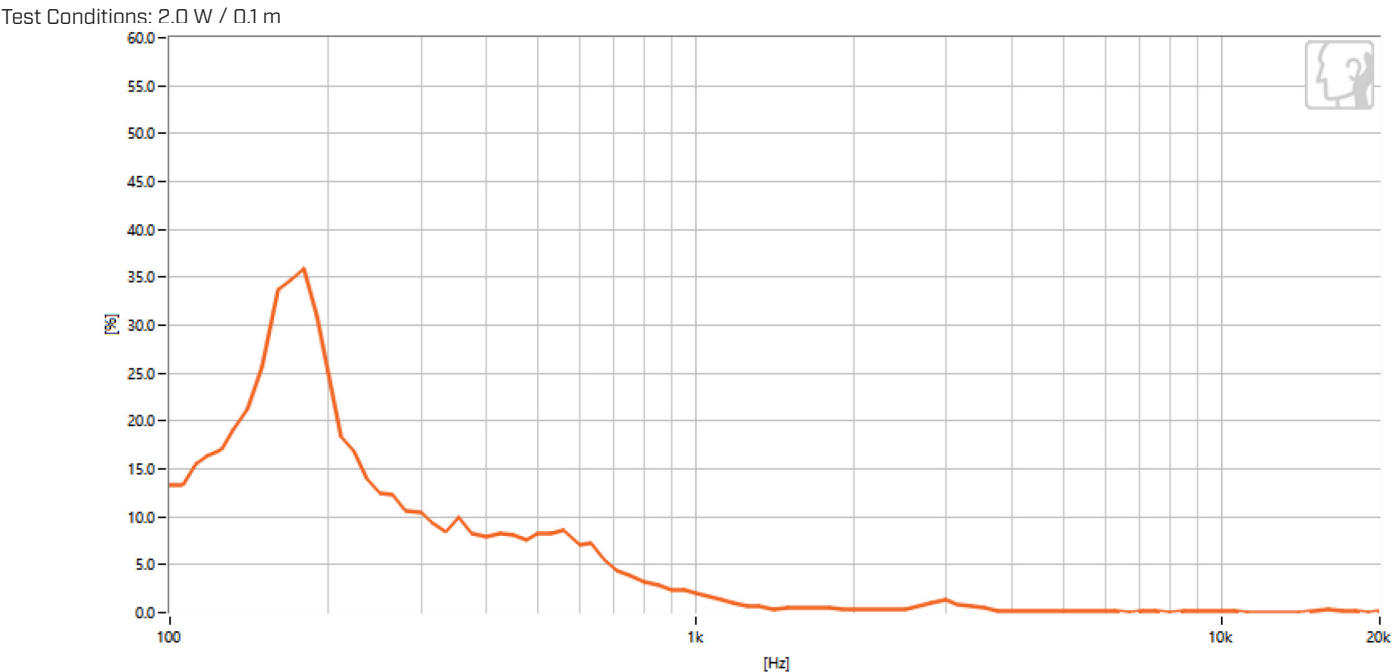


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



THIELE-SMALL PARAMETERS

| parameter                    | conditions/description | typ   |
|------------------------------|------------------------|-------|
| Mechanical Q Factor          | Qms                    | 4.349 |
| Electrical Q Factor          | Qes                    | 5.468 |
| Total Q Factor               | Qts                    | 2.422 |
| Compliance Equivalent Volume | Vas                    | 0.013 |

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

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 01/03/2024 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.02 | added Thiele-Small Parameters     | 02/05/2025 |

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



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