

**MODEL:** CMS-2844-058SP | **DESCRIPTION:** SPEAKER

## FEATURES

- 8 ohm
- rated 0.5 W
- solder pads



## SPECIFICATIONS

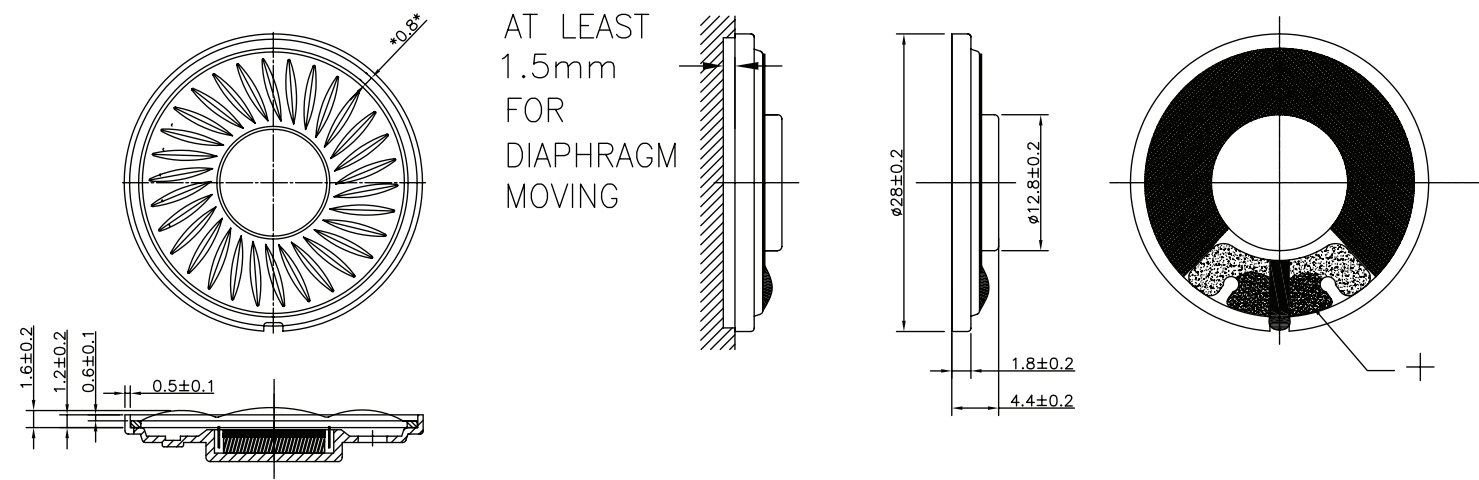
| parameter               | conditions/description                                    | min | typ | max    | units              |
|-------------------------|-----------------------------------------------------------|-----|-----|--------|--------------------|
| input power             |                                                           |     | 0.5 | 1      | W                  |
| impedance               |                                                           | 6.8 | 8   | 9.2    | $\Omega$           |
| resonant frequency [Fo] |                                                           | 312 | 390 | 468    | Hz                 |
| frequency response      |                                                           | 250 |     | 20,000 | Hz                 |
| sound pressure level    | at 0.5 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz               | 79  | 82  | 85     | dB                 |
| distortion              | at 1.0 kHz, 0.5 W, 50 cm                                  |     |     | 5      | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range              |     |     | 2.0    | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |     |     |        |                    |
| dimensions              | $\varnothing 28 \times 4.4$                               |     |     |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |     |     |        |                    |
| frame material          | iron                                                      |     |     |        |                    |
| cone material           | PEI                                                       |     |     |        |                    |
| terminal                | solder pads                                               |     |     |        |                    |
| weight                  |                                                           |     | 5.3 |        | 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

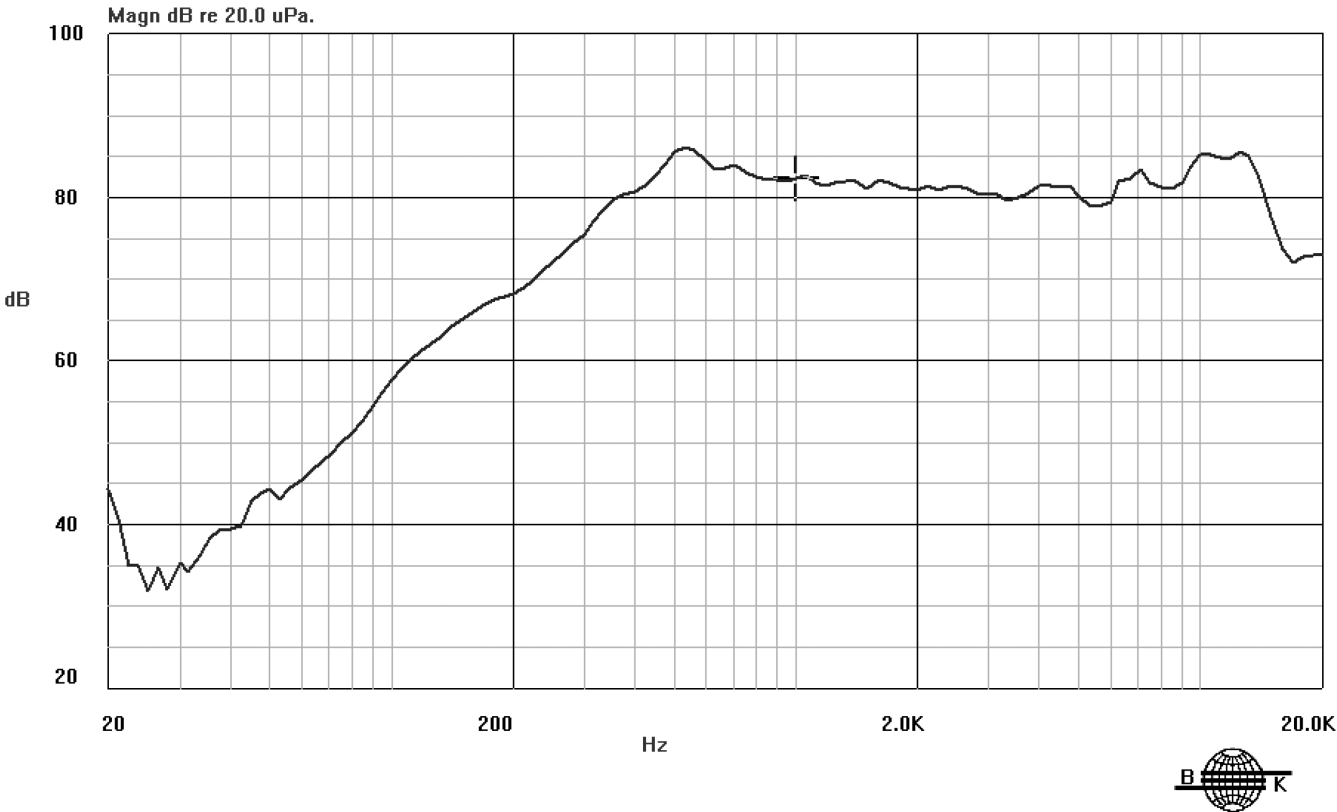
MOUNTING NOTICE



RESPONSE CURVES

Frequency Response Curve

Test Conditions: 2 V / 50 cm



THIELE-SMALL PARAMETERS

| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 3.25   |
| Electrical Q Factor          | Qes                    | 4.862  |
| Total Q Factor               | Qts                    | 1.948  |
| Compliance Equivalent Volume | Vas                    | 0.0017 |

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

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/27/2023 |
| 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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