



MODEL: CMS-2850-058SP

|

DESCRIPTION: SPEAKER

FEATURES

- 8 ohm
- 0.5 W
- solder pads



SPECIFICATIONS

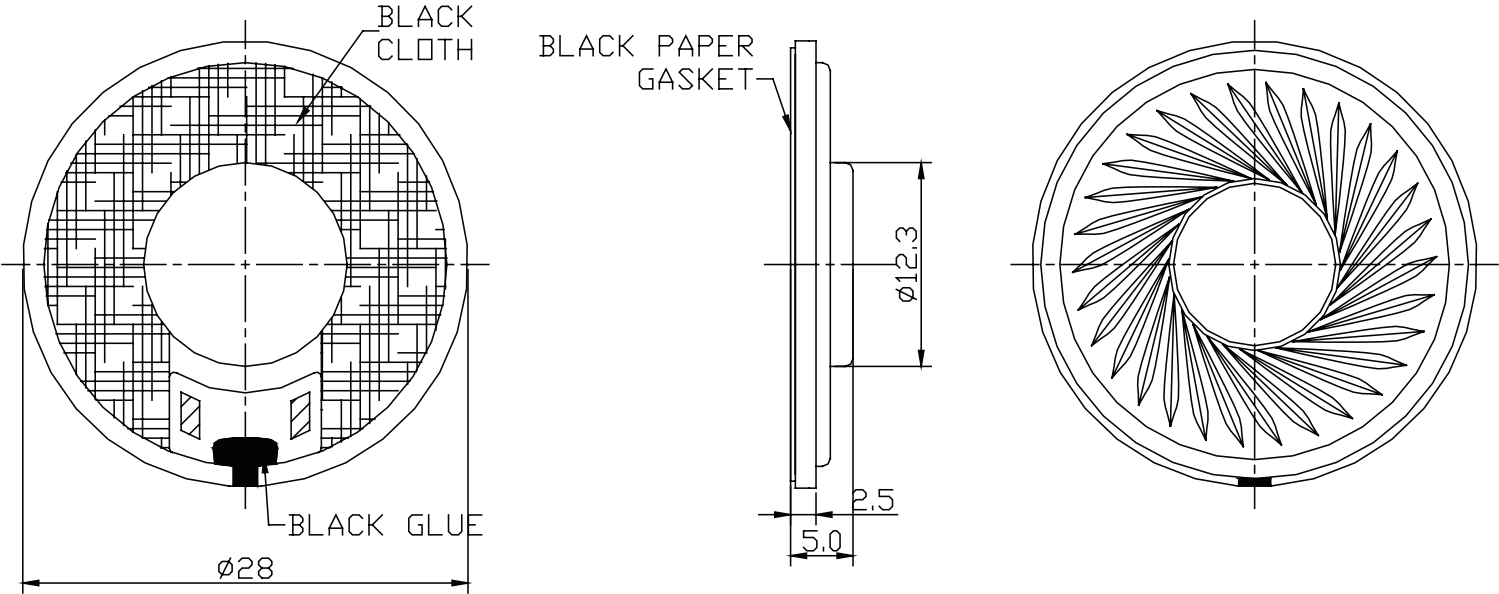
| parameter               | conditions/description                                    | min | typ | max    | units    |
|-------------------------|-----------------------------------------------------------|-----|-----|--------|----------|
| input power             | max power: 1 minute on, 2 minutes off, 10 cycles          |     | 0.5 | 1.0    | W        |
| impedance               | at 2.0 kHz, 1 V                                           | 6.8 | 8   | 9.2    | $\Omega$ |
| resonant frequency (Fo) | at 1.0 V                                                  | 400 | 500 | 600    | Hz       |
| frequency response      |                                                           | Fo  |     | 20,000 | Hz       |
| sound pressure level    | at 1.0 W, 100 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz           | 74  | 77  | 80     | dB       |
|                         | at 0.5 W, 10 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz            | 91  | 94  | 97     | dB       |
| distortion              | at 1.0 kHz, 0.5 W                                         |     |     | 5      | %        |
| buzz, rattle, etc.      | must be normal at sine wave between 300 Hz ~ 6 kHz        |     |     | 2.0    | V        |
| polarity                | cone moves forward w/ positive dc current to “+” terminal |     |     |        |          |
| dimensions              | Ø28 x 5.0                                                 |     |     |        | mm       |
| magnet                  | Nd-Fe-B                                                   |     |     |        |          |
| frame material          | SPCC                                                      |     |     |        |          |
| cone material           | PET                                                       |     |     |        |          |
| terminal                | solder pads                                               |     |     |        |          |
| weight                  |                                                           |     | 6   |        | g        |
| operating temperature   |                                                           | -30 |     | 60     | °C       |
| storage temperature     |                                                           | -30 |     | 60     | °C       |
| hand soldering          | for 3-5 seconds                                           | 370 | 380 | 390    | °C       |
| RoHS                    | yes                                                       |     |     |        |          |

Notes:

1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

**MECHANICAL DRAWING**

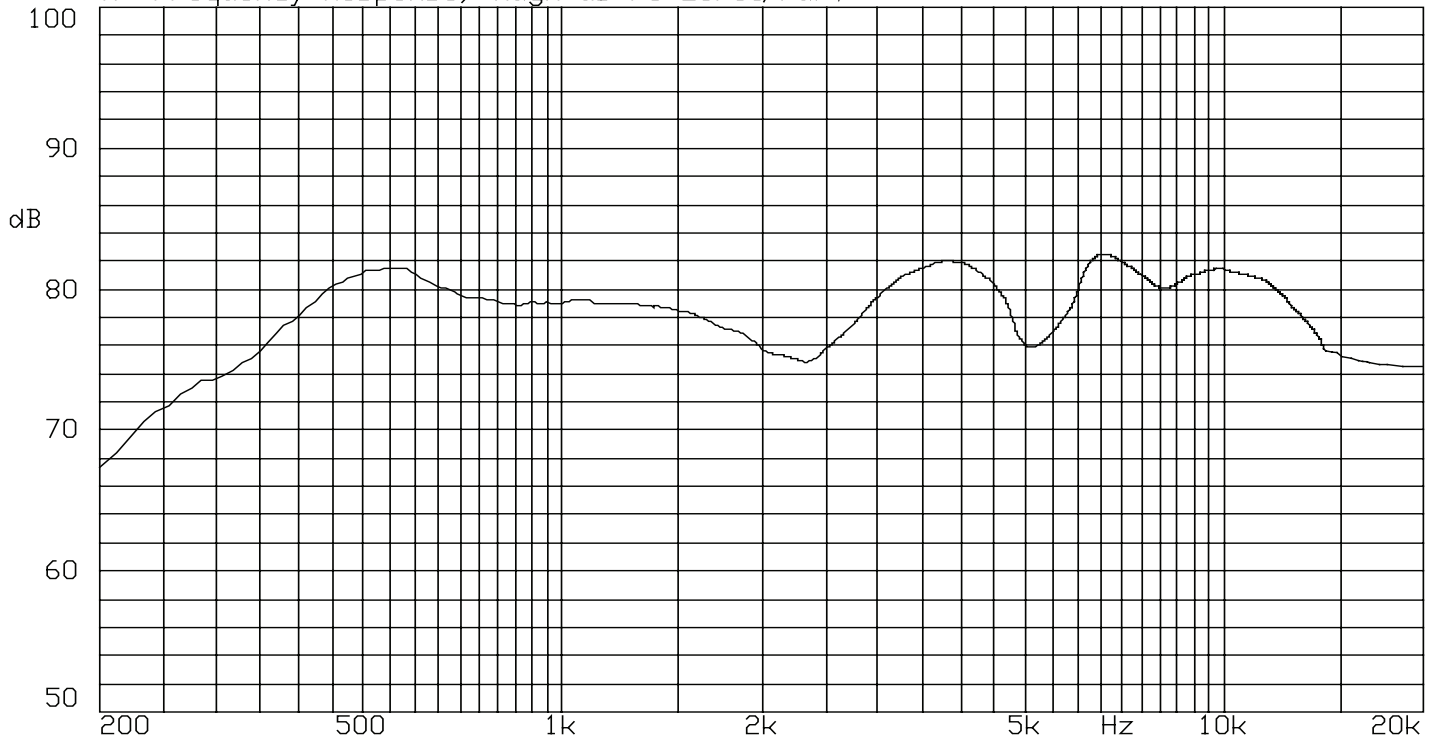
units: mm  
tolerance: ±0.3 mm



## RESPONSE CURVES

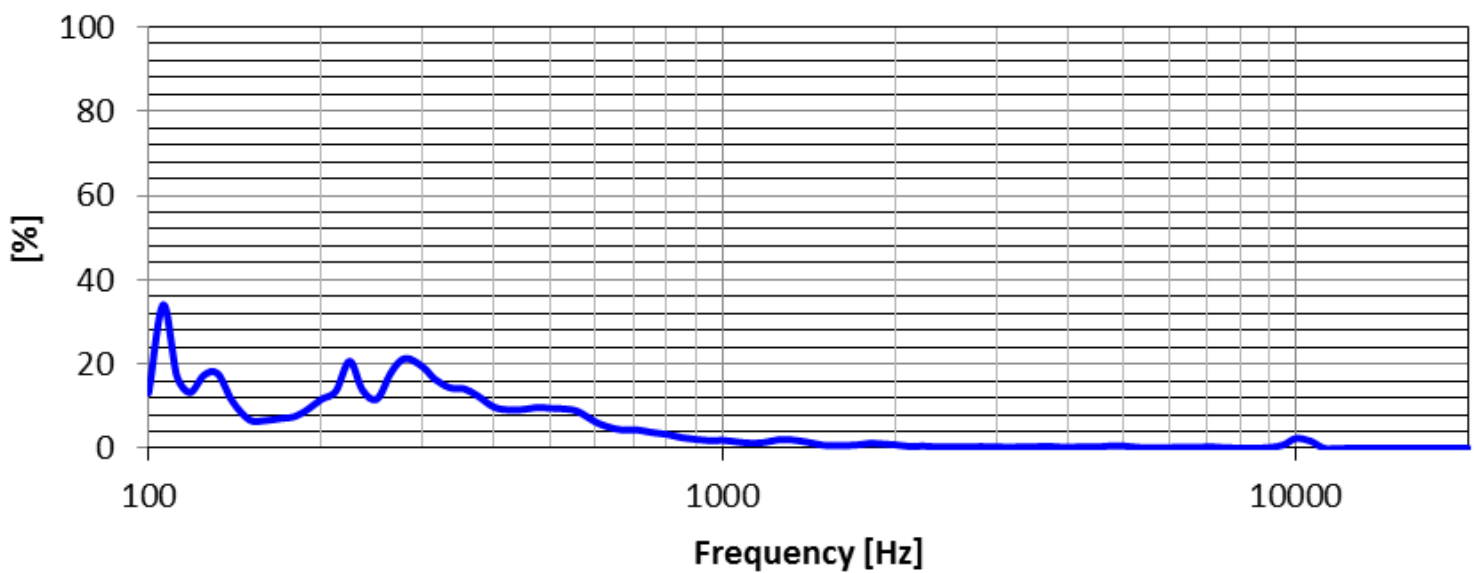
### Frequency Response Curve

Test Conditions: 1.0 W / 1 m

A: Frequency Response, Magn dB re 20.00 $\mu$ Pa/V

### Total Harmonic Distortion Curve

Test Conditions: 1.0 W / 1 m



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 12/07/2023 |
| 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.

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