

**MODEL:** CDS-5075-038SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 8 ohm
- rated 0.3 W
- solder pads

**SPECIFICATIONS**

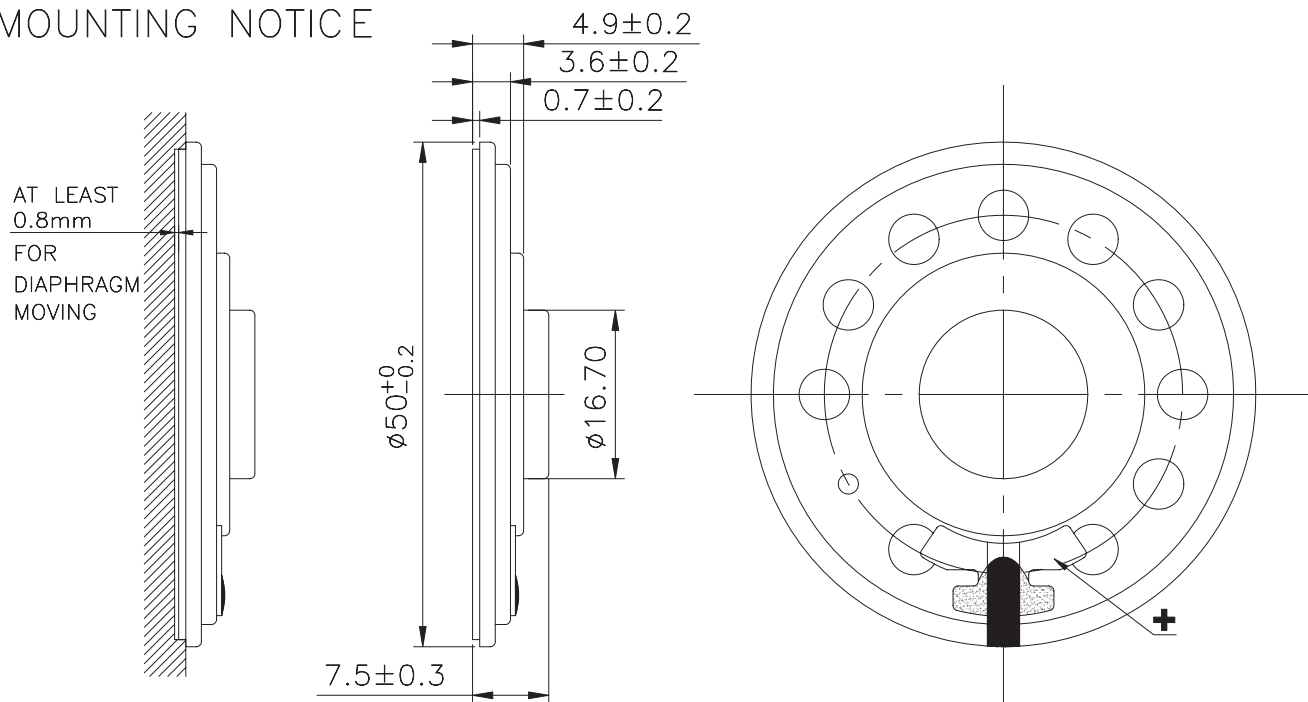
| parameter               | conditions/description                                    | min | typ  | max    | units              |
|-------------------------|-----------------------------------------------------------|-----|------|--------|--------------------|
| input power             |                                                           |     | 0.3  | 0.6    | W                  |
| impedance               |                                                           | 6.8 | 8    | 9.2    | $\Omega$           |
| resonant frequency (Fo) |                                                           | 288 | 360  | 432    | Hz                 |
| frequency response      |                                                           | 200 |      | 15,000 | Hz                 |
| sound pressure level    | at 0.3 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz               | 82  | 85   | 88     | dB                 |
| distortion              | at 1.0 kHz, 0.3 W                                         |     |      | 5      | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range              |     |      | 1.54   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |     |      |        |                    |
| dimensions              | $\varnothing 50 \times 7.5$                               |     |      |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |     |      |        |                    |
| frame material          | iron                                                      |     |      |        |                    |
| cone material           | PET                                                       |     |      |        |                    |
| terminal                | solder pads                                               |     |      |        |                    |
| weight                  |                                                           |     | 13.1 |        | 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.

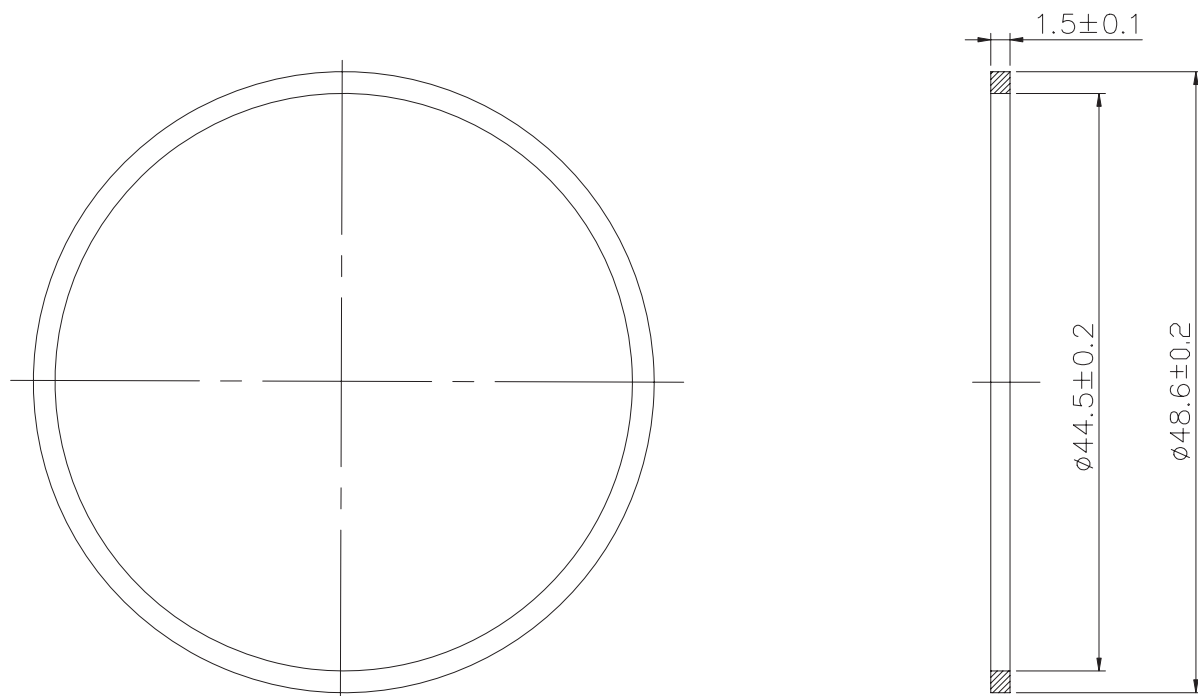
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
 $8 < X \leq 16$ :  $\pm 0.25$  mm  
 $16 < X \leq 24$ :  $\pm 0.30$  mm  
unless otherwise noted

### MOUNTING NOTICE



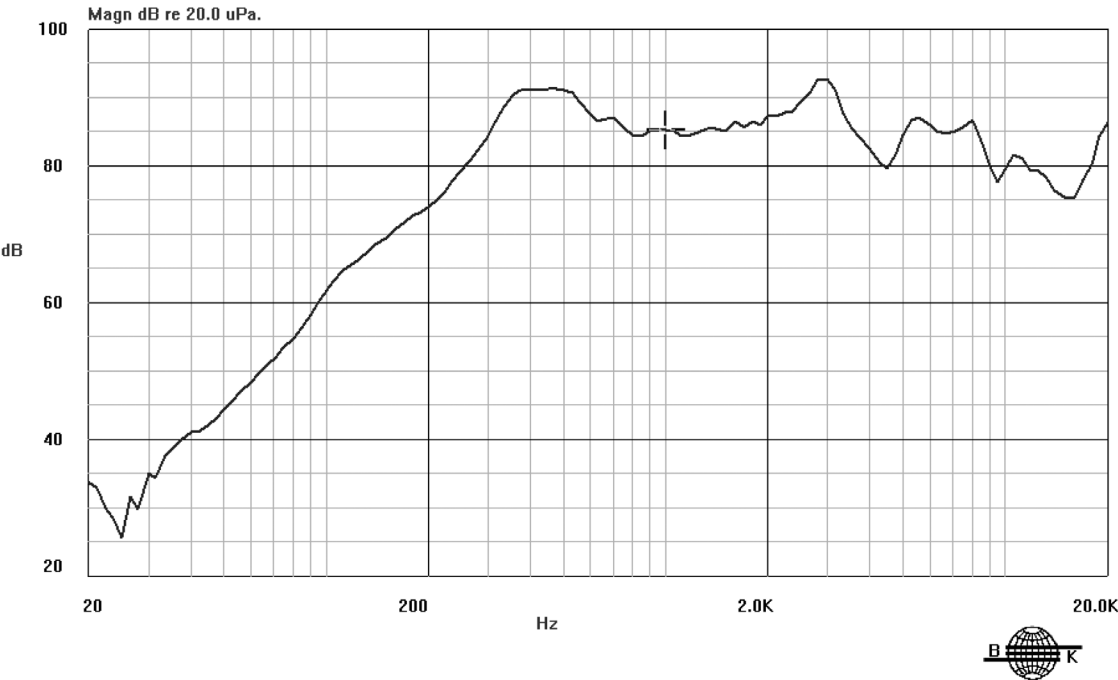
### GASKET



RESPONSE CURVES

Frequency Response Curve

Test Conditions: 1.54 V / 50 cm



THIELE-SMALL PARAMETERS

| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 27.502 |
| Electrical Q Factor          | Qes                    | 27.32  |
| Total Q Factor               | Qts                    | 13.705 |
| Compliance Equivalent Volume | Vas                    | 0.2375 |

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

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 07/06/2023 |
| 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.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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