

**MODEL:** CMS-405-158N-67 | **DESCRIPTION:** SPEAKER**FEATURES**

- 8 ohm rated impedance
- 1.5 W rated power
- IP67 rated

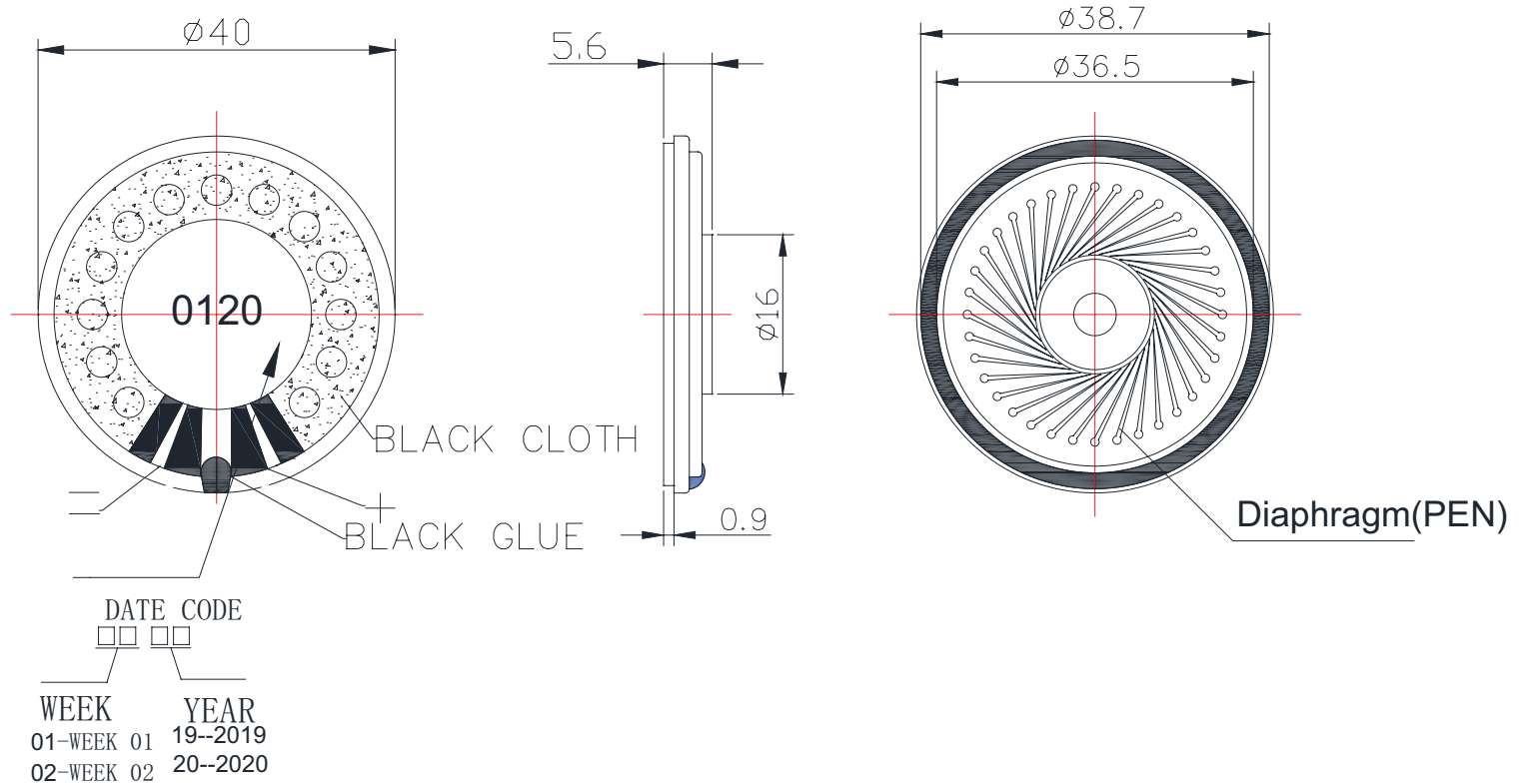
**SPECIFICATIONS**

| parameter               | conditions/description                                                    | min | typ | max    | units              |
|-------------------------|---------------------------------------------------------------------------|-----|-----|--------|--------------------|
| input power             | IEC-60268-5, filter 60 seconds on, 120 seconds off, 10 cycles (room temp) |     | 1.5 | 2.0    | W                  |
| impedance               | at 2.0 kHz, 1.0 V                                                         | 6.8 | 8   | 9.2    | $\Omega$           |
| resonant frequency (Fo) | at 1.0 V                                                                  | 680 | 850 | 1,020  | Hz                 |
| frequency response      |                                                                           | Fo  |     | 20,000 | Hz                 |
| sound pressure level    | at 1.5 W, 10 cm, avg at 2.0 kHz                                           | 100 | 103 | 106    | dB                 |
| distortion              | at 1.0 kHz, rated power, 10 cm                                            |     |     | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, Fo~8 kHz                                     |     |     | 3.46   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal                 |     |     |        |                    |
| dimensions              | $\varnothing 40 \times 5.6$                                               |     |     |        | mm                 |
| magnet                  | Nd-Fe-B                                                                   |     |     |        |                    |
| frame material          | SPCC                                                                      |     |     |        |                    |
| cone material           | PEN                                                                       |     |     |        |                    |
| terminal                | solder pads                                                               |     |     |        |                    |
| weight                  |                                                                           |     | 8.5 |        | g                  |
| operating temperature   |                                                                           | -20 |     | 60     | $^{\circ}\text{C}$ |
| storage temperature     |                                                                           | -30 |     | 70     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds                                                     | 370 | 380 | 390    | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                                       |     |     |        |                    |
| IP level                | IP67 (front side)                                                         |     |     |        |                    |

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$ , humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

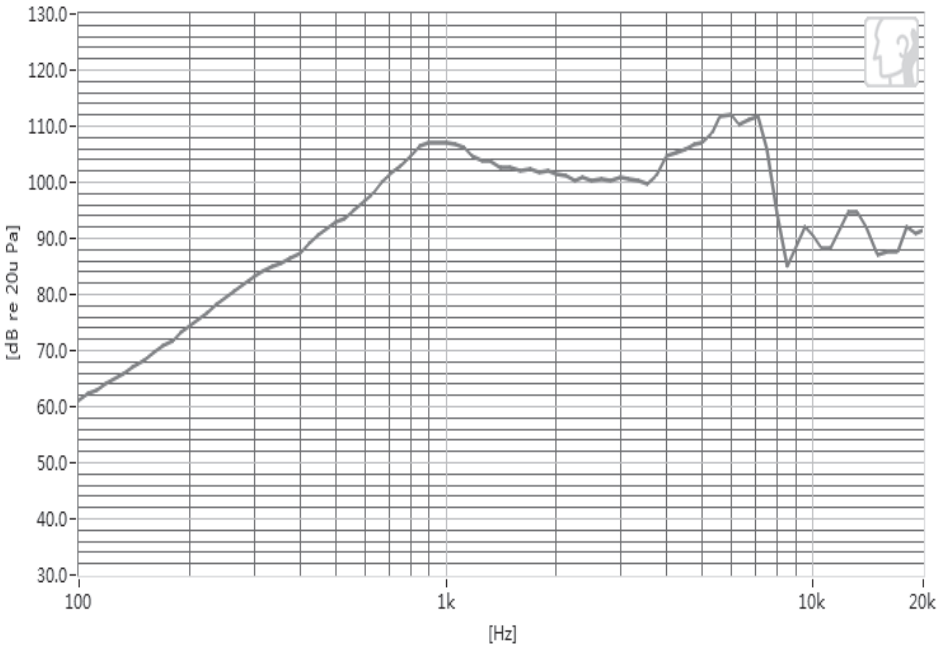
units: mm  
tolerance:  $\pm 0.5$  mm



RESPONSE CURVES

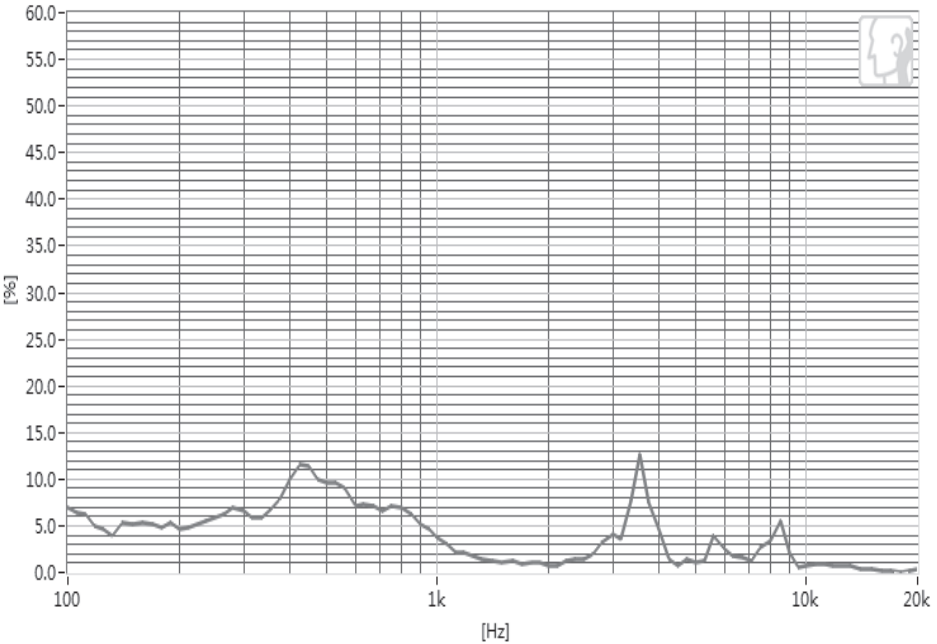
Frequency Response Curve

Test Conditions: 1.5 W / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 1.5 W / 10 cm



THIELE-SMALL PARAMETERS

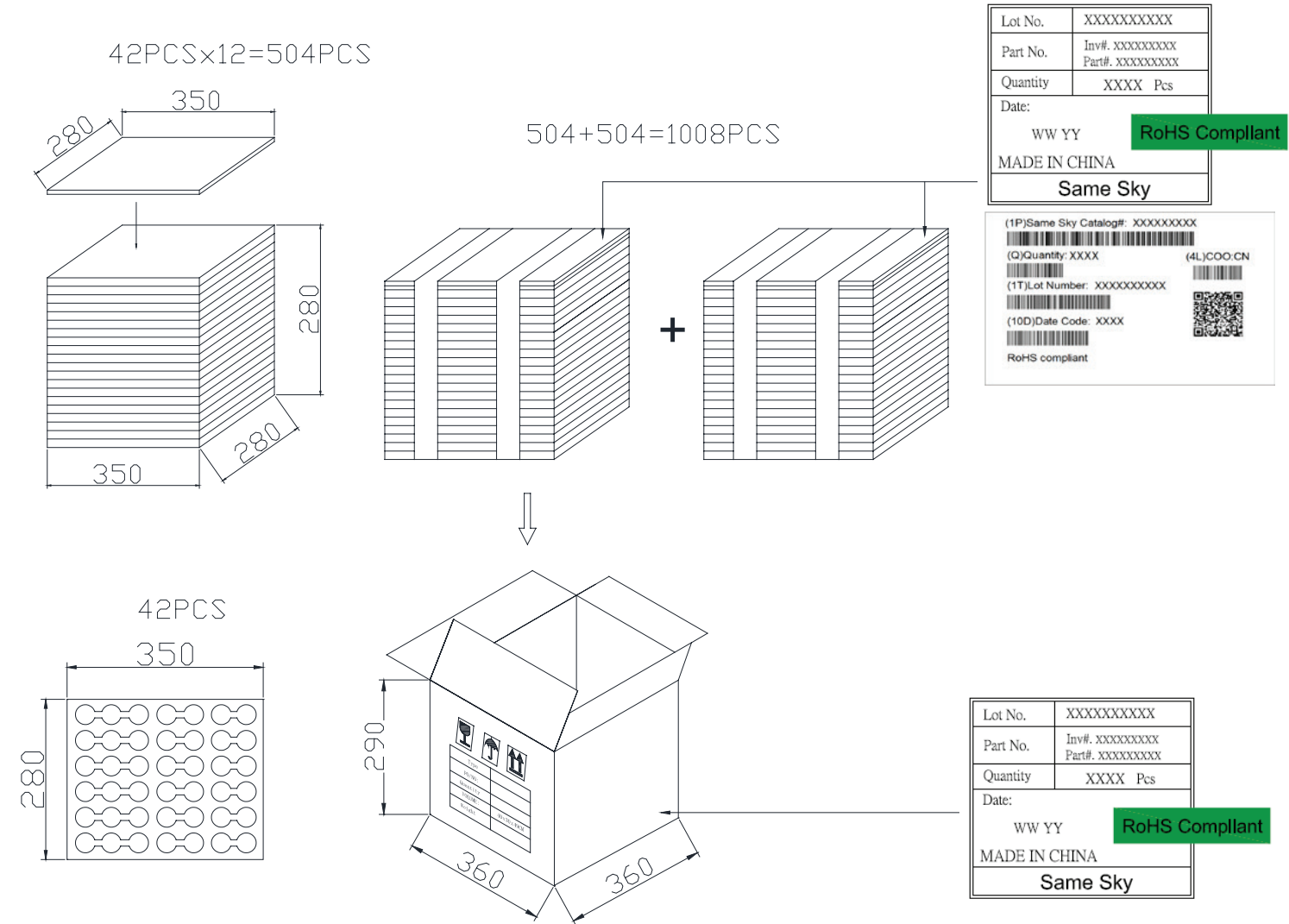
| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 2.983  |
| Electrical Q Factor          | Qes                    | 15.535 |
| Total Q Factor               | Qts                    | 2.502  |
| Compliance Equivalent Volume | Vas                    | 0.0505 |

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

PACKAGING

units: mm

Tray Size: 350 x 280 x 12 mm  
Tray QTY: 42 pcs per tray  
Carton Size: 360 x 360 x 290 mm  
Carton QTY: 1,008 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 06/08/2020 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/11/2024 |
| 1.03 | added Thiele-Small Parameters     | 02/04/2025 |

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



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