

**SERIES:** CMS-40504N-L152 | **DESCRIPTION:** SPEAKER**FEATURES**

- low profile
- 500 Hz resonant frequency
- wire leads with connector options

**SPECIFICATIONS**

| parameter               | conditions/description                                                                           | min      | typ       | max       | units        |
|-------------------------|--------------------------------------------------------------------------------------------------|----------|-----------|-----------|--------------|
| input power             | maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp                       |          | 2.0       | 2.5       | W            |
| impedance               | at 2.0 kHz, 1.0 V                                                                                | 3.4      | 4         | 4.6       | $\Omega$     |
| resonant frequency (Fo) | at 1.0 V                                                                                         | 400      | 500       | 600       | Hz           |
| frequency response      | output SPL -10 dB                                                                                | Fo       |           | 7,000     | Hz           |
| sound pressure level    | at 1.0 W, 0.1 m ave, at 0.8 ,1.0, 1.2, 1.5 kHz<br>at 2.0 W, 0.5 m ave, at 0.8 ,1.0, 1.2, 1.5 kHz | 97<br>86 | 100<br>89 | 103<br>92 | <br>dB<br>dB |
| distortion              | at 1.0 kHz, 1.0 W                                                                                |          |           | 5         | %            |
| buzz, rattle, etc.      | must be normal at sine wave between<br>Fo ~ 10,000 Hz                                            |          | 2.83      |           | V            |
| dimensions              | $\varnothing$ 40 x 5.0                                                                           |          |           |           | mm           |
| magnet                  | Nd-Fe-B                                                                                          |          |           |           |              |
| material                | metal                                                                                            |          |           |           |              |
| cone material           | PEI                                                                                              |          |           |           |              |
| terminal                | wire leads                                                                                       |          |           |           |              |
| weight                  |                                                                                                  |          | 12.4      |           | g            |
| operating temperature   |                                                                                                  | -30      |           | 70        | $^{\circ}$ C |
| storage temperature     |                                                                                                  | -40      |           | 85        | $^{\circ}$ C |
| hand soldering          | for maximum 3 seconds                                                                            | 370      | 380       | 390       | $^{\circ}$ C |
| RoHS                    | yes                                                                                              |          |           |           |              |

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

**PART NUMBER KEY****CMS-40504N-L152 X**

Base Number

Termination Options:

"blank" = wire leads, no connector

A = wire leads with Molex housing 51021-0200

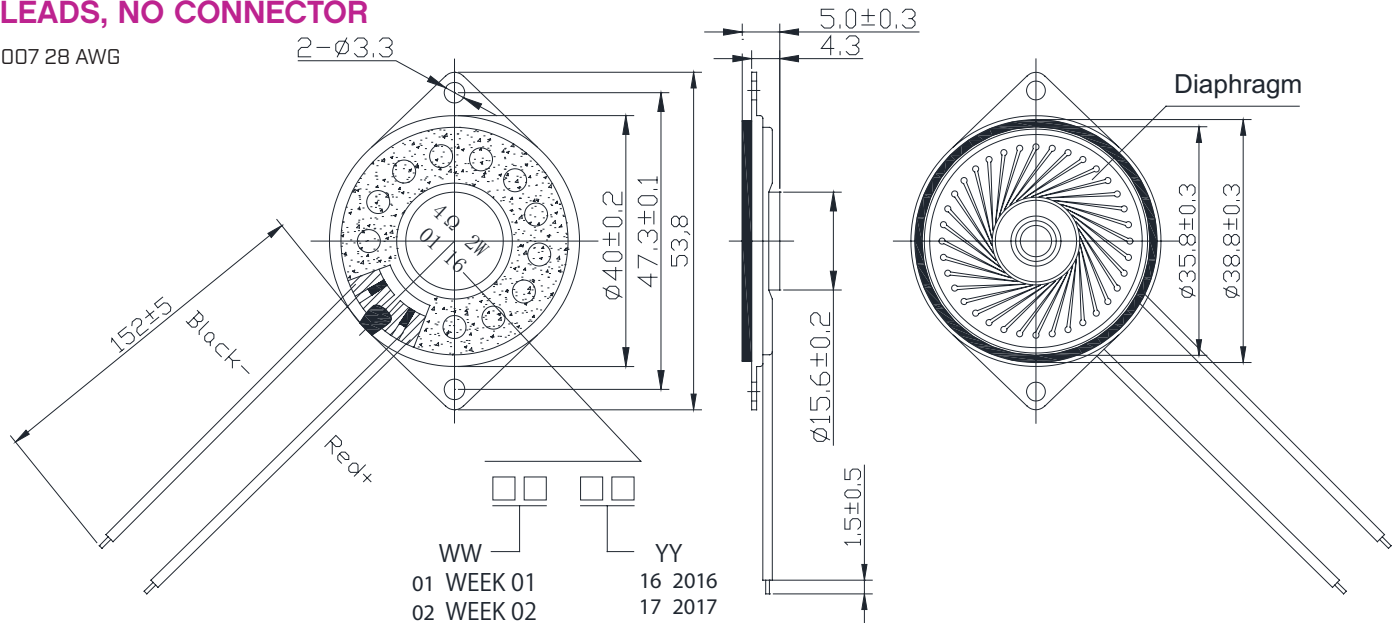
B = wire leads with JST housing SHR-02V-S-B

## MECHANICAL DRAWINGS

units: mm  
tolerance:  $\pm 0.2$  mm

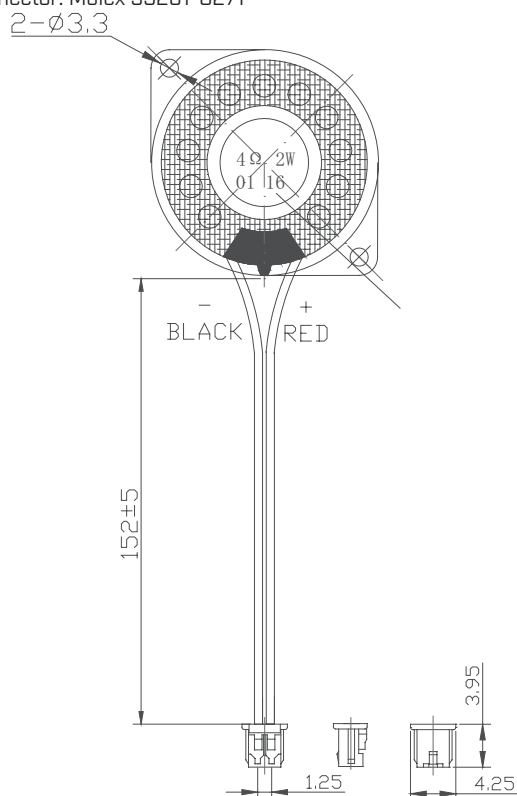
### WIRE LEADS, NO CONNECTOR

wire: UL 1007 28 AWG



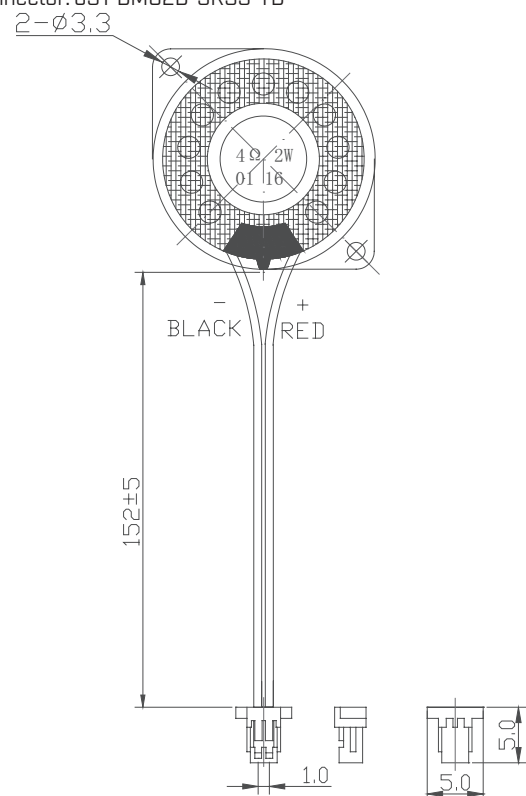
### WIRE LEADS WITH MOLEX CONNECTOR

wire: UL 1571 28 AWG  
connector: Molex 51021-0200  
mating connector: Molex 53261-0271

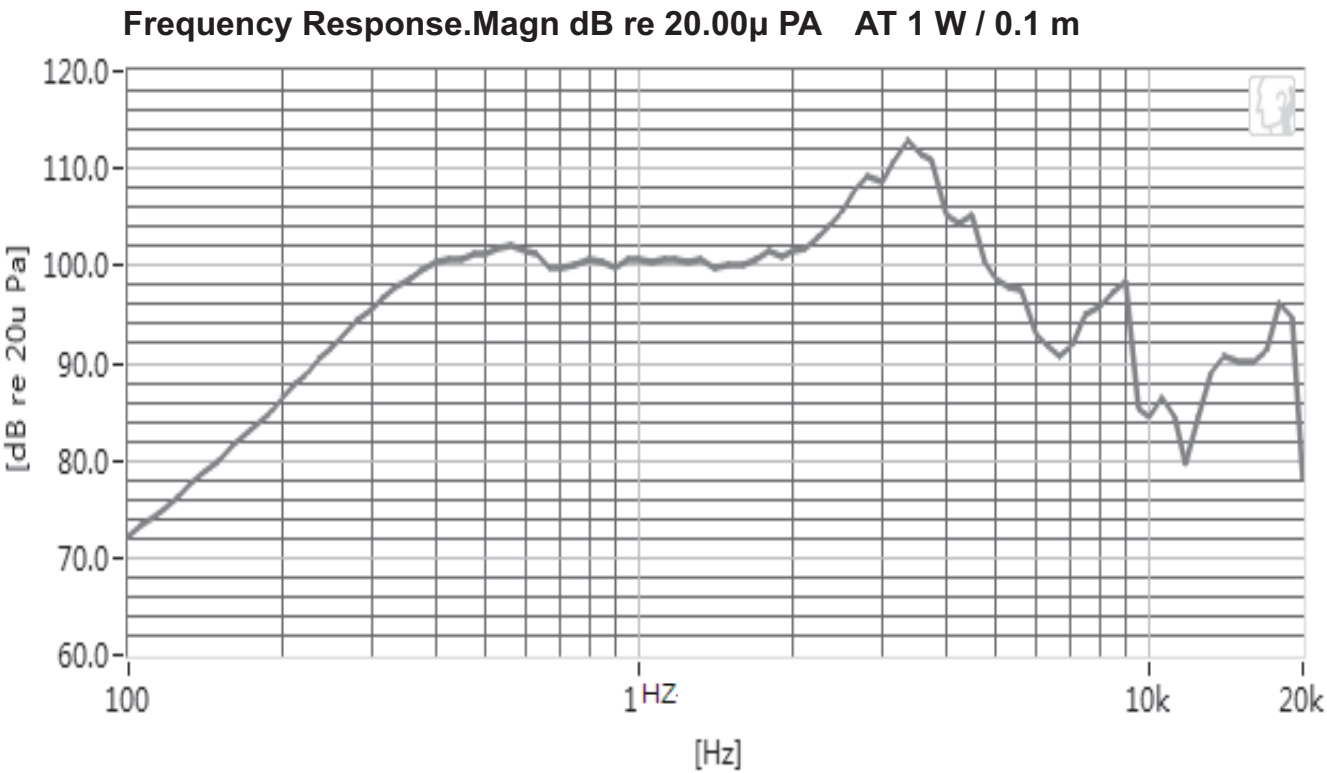


### WIRE LEADS WITH JST CONNECTOR

wire: UL 1571 28 AWG  
connector: JST SHR-02V-S-B  
mating connector: JST BM02B-SRSS-TB



FREQUENCY RESPONSE CURVE



THIELE-SMALL PARAMETERS

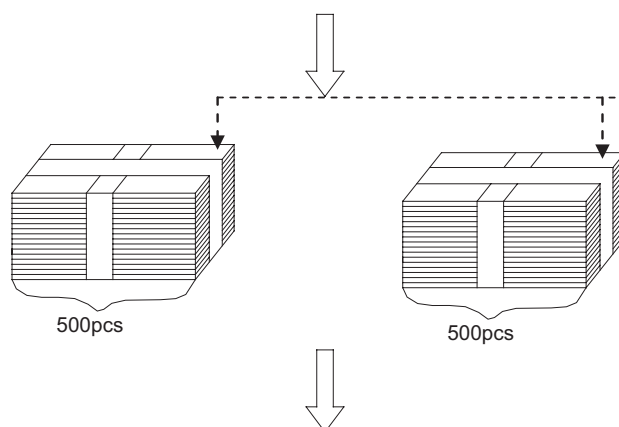
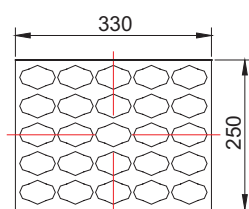
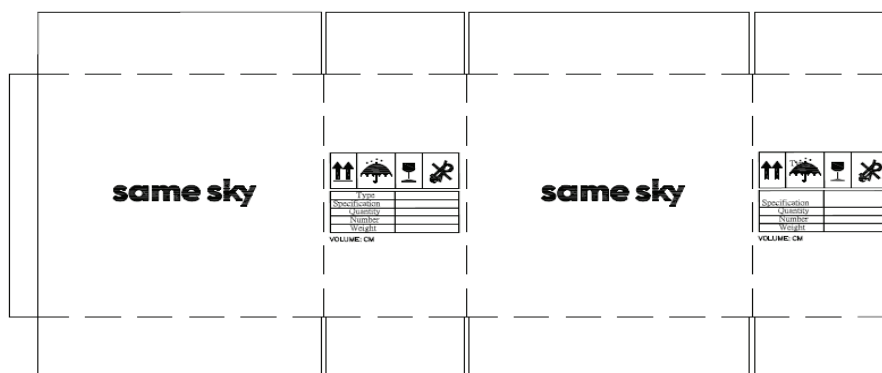
| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 2.556  |
| Electrical Q Factor          | Qes                    | 5.639  |
| Total Q Factor               | Qts                    | 1.759  |
| Compliance Equivalent Volume | Vas                    | 0.0911 |

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

## PACKAGING

units: mm

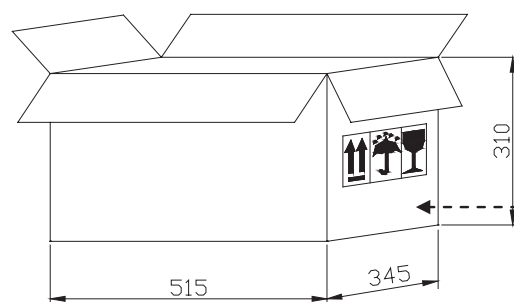
Tray Size: 330 x 250 x 13 mm  
Carton Size: 515 x 345 x 310 mm  
Tray QTY: 25 pcs per tray  
Carton QTY: 1,000 pcs per carton



|               |                                   |
|---------------|-----------------------------------|
| Lot No.       | XXXXXXXXXX                        |
| Part No.      | Inv# XXXXXXXXX<br>Part# XXXXXXXXX |
| Quantity      | XXXX Pcs                          |
| Date:         | WW YY                             |
| MADE IN CHINA |                                   |
| Same Sky      |                                   |

RoHS Compliant

|                                 |            |
|---------------------------------|------------|
| (1P)Same Sky Catalog# XXXXXXXXX |            |
| (Q)Quantity: XXXX               | (4L)COO:CN |
| (1T)Lot Number: XXXXXXXXXX      |            |
| (10D)Date Code: XXXX            |            |
| RoHS compliant                  |            |



|               |                                   |
|---------------|-----------------------------------|
| Lot No.       | XXXXXXXXXX                        |
| Part No.      | Inv# XXXXXXXXX<br>Part# XXXXXXXXX |
| Quantity      | XXXX Pcs                          |
| Date:         | WW YY                             |
| MADE IN CHINA |                                   |
| Same Sky      |                                   |

RoHS Compliant

REVISION HISTORY

| rev. | description                           | date       |
|------|---------------------------------------|------------|
| 1.0  | initial release                       | 06/28/2016 |
| 1.01 | brand update                          | 01/22/2020 |
| 1.02 | added Molex and JST connector options | 10/27/2020 |
| 1.03 | logo, datasheet style update          | 08/05/2022 |
| 1.04 | CUI Devices rebranded to Same Sky     | 09/11/2024 |
| 1.05 | added Thiele-Small Parameters         | 02/05/2025 |

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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