

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 | Ω |
| 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 | 97 | 100 | 103 | dB |
| | at 2.0 W, 0.5 m ave, at 0.8 ,1.0, 1.2, 1.5 kHz | 86 | 89 | 92 | dB |
| distortion | at 1.0 kHz, 1.0 W | | | 5 | % |
| buzz, rattle, etc. | must be normal at sine wave between Fo ~ 10,000 Hz | | 2.83 | | V |
| dimensions | $\varnothing 40 \times 5.0$ | | | | mm |
| magnet | Nd-Fe-B | | | | |
| material | metal | | | | |
| cone material | PEI | | | | |
| terminal | wire leads | | | | |
| weight | | | 12.4 | | g |
| operating temperature | | -30 | | 70 | $^{\circ}\text{C}$ |
| storage temperature | | -40 | | 85 | $^{\circ}\text{C}$ |
| hand soldering | for maximum 3 seconds | 370 | 380 | 390 | $^{\circ}\text{C}$ |
| RoHS | yes | | | | |

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

PART NUMBER KEY

CMS-40504N-L152 X

Base Number

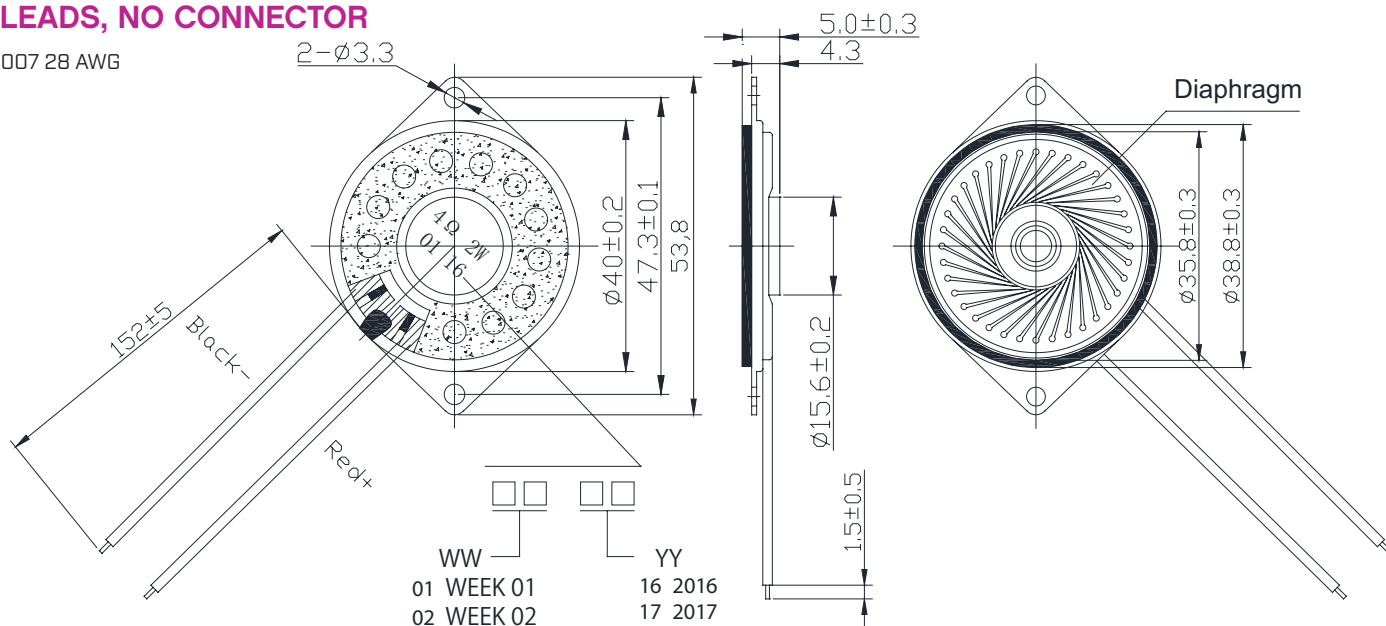
Termination Options:
"blank" = wire leads, no connector
A = wire leads with Molex housing 51021-0200
B = wire leads with JST housing SHR-02V-S-B

MECHANICAL DRAWINGS

units: mm
tolerance: ± 0.2 mm

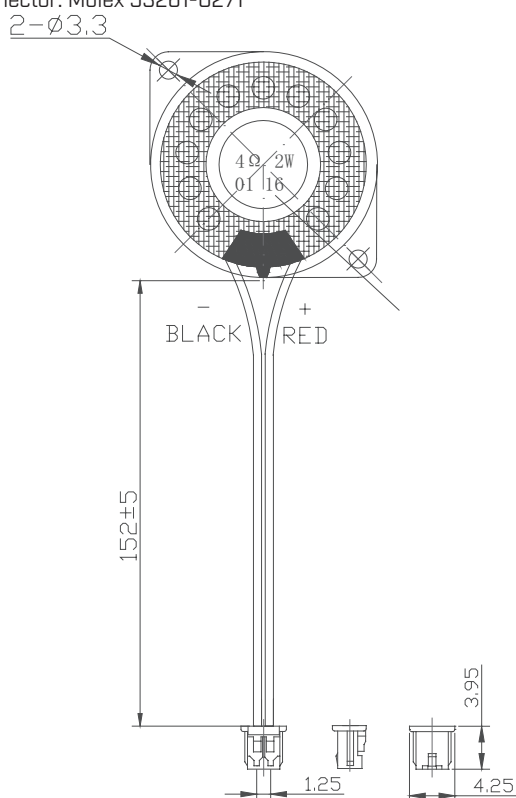
WIRE LEADS, NO CONNECTOR

wire: UL 1007 28 AWG



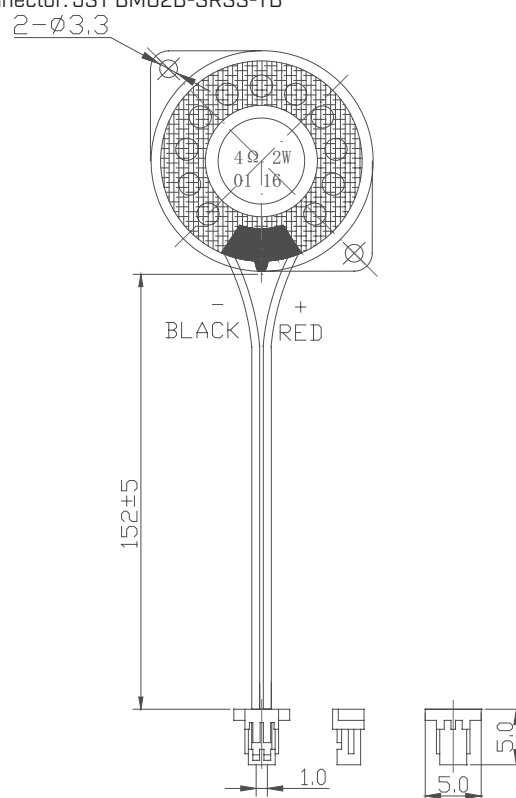
WIRE LEADS WITH MOLEX CONNECTOR

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

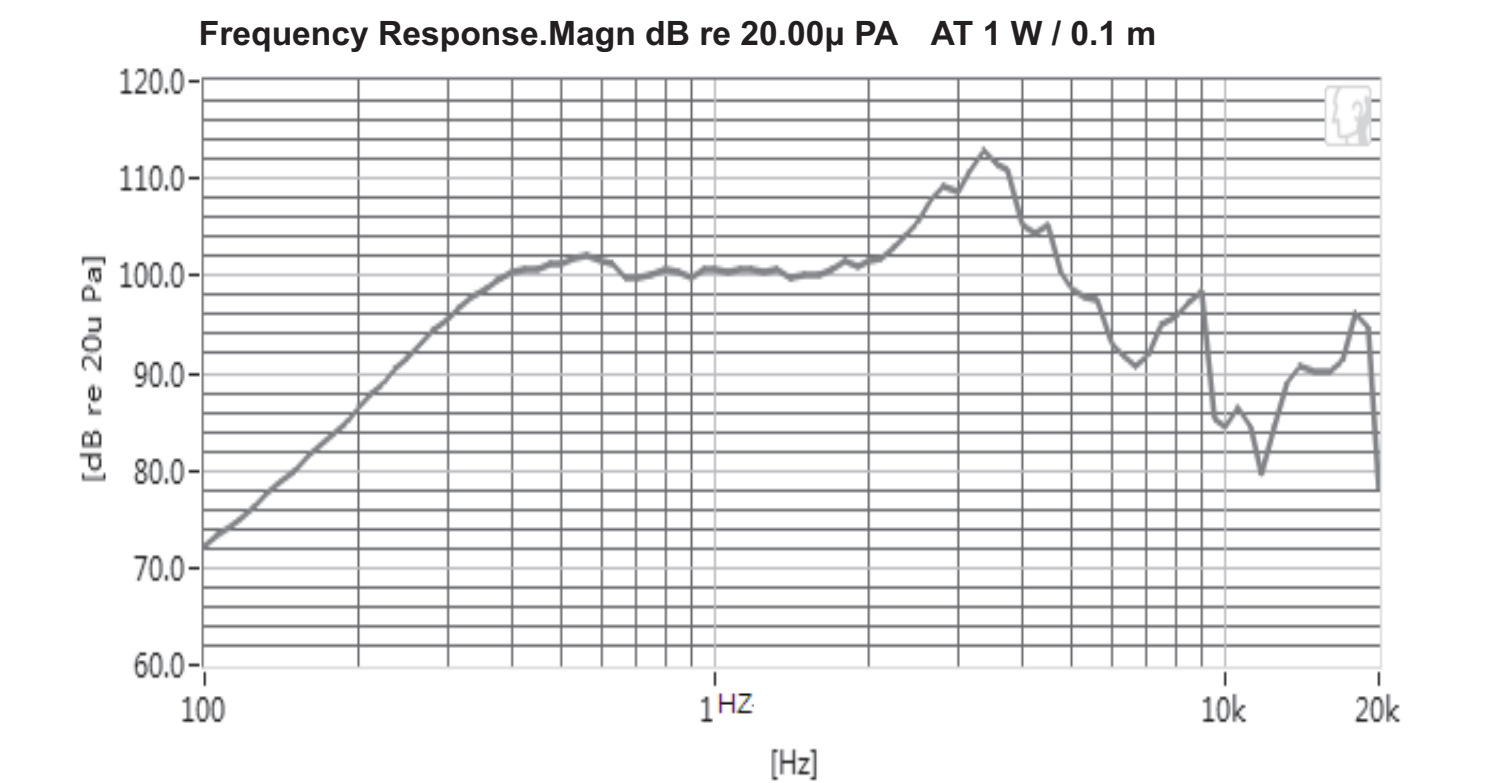


WIRE LEADS WITH JST CONNECTOR

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



FREQUENCY RESPONSE CURVE



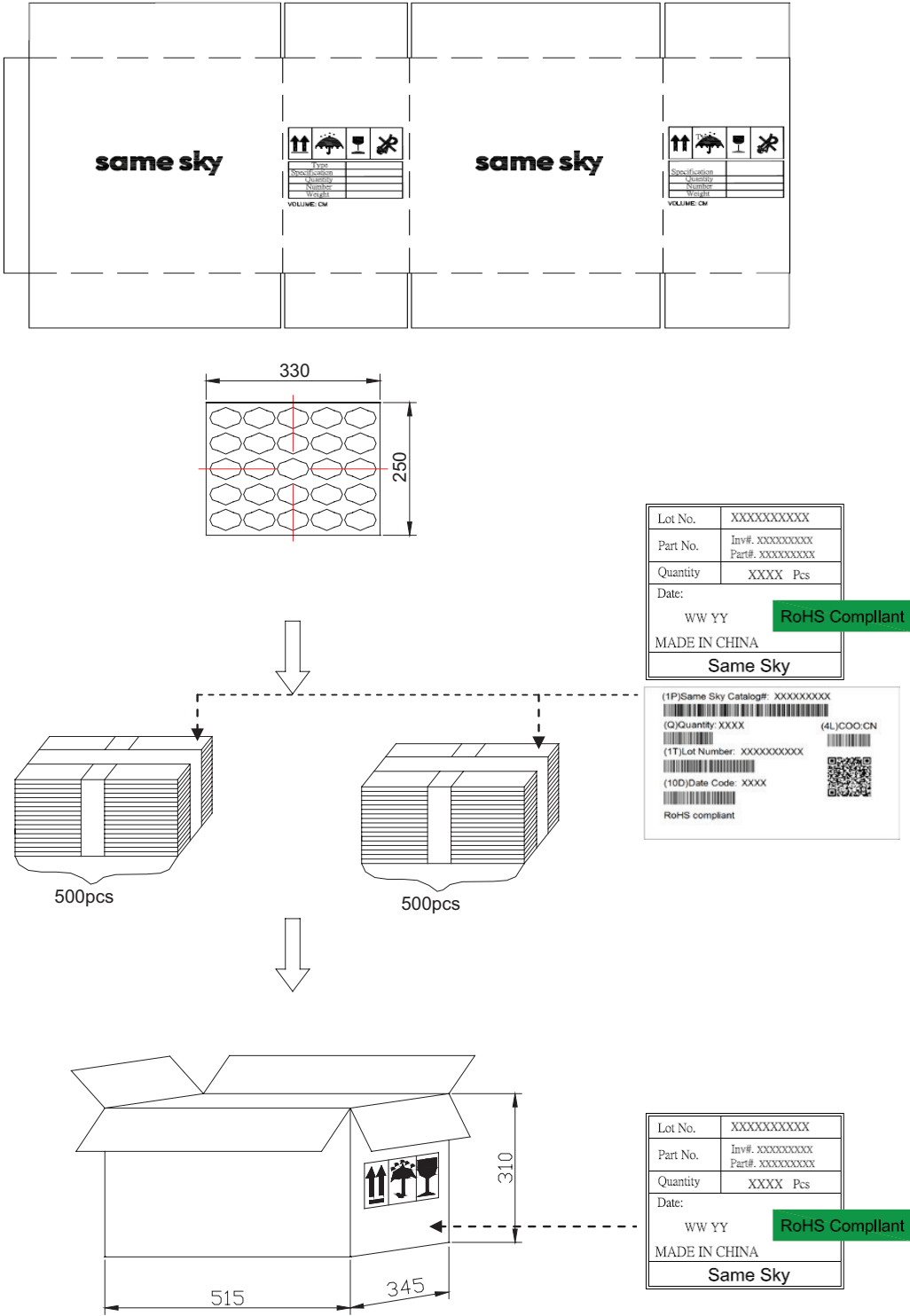
THIELE-SMALL PARAMETERS

| 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



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.



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