

**MODEL:** CDM-20008 | **DESCRIPTION:** SPEAKER**FEATURES**

- metal frame
- PEN cone

**SPECIFICATIONS**

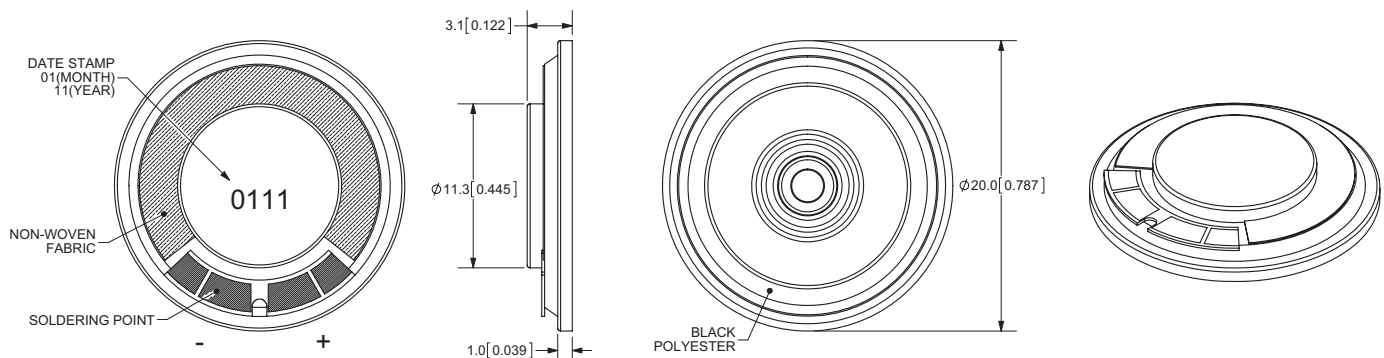
| parameter             | conditions/description                                                      | min | typ | max   | units              |
|-----------------------|-----------------------------------------------------------------------------|-----|-----|-------|--------------------|
| diameter              |                                                                             |     | 20  |       | mm                 |
| depth                 |                                                                             |     | 3.1 |       | mm                 |
| input power           | max. power: IEC-60268-5, filter 60 s on / 120 s off, 10 cycles at room temp |     | 3.0 | 0.5   | W                  |
| impedance             | at 1 kHz, 1 V                                                               | 6.8 | 8   | 9.2   | $\Omega$           |
| resonant frequency    | at 1 V                                                                      | 448 | 560 | 672   | Hz                 |
| sound pressure level  | 0.3 W, 10 cm ave. at 1.0, 1.2, 1.5, 2.0 kHz                                 | 89  | 92  | 95    | dB                 |
| response              |                                                                             |     |     | 7,000 | Hz                 |
| distortion            | at 1 kHz, 0.3 W                                                             |     |     | 5     | %                  |
| buzz, rattle, etc.    | must be normal at sine wave 1.54 V                                          |     |     |       |                    |
| magnet size           | 8.0 x 1.0 mm (Nd-Fe-B)                                                      |     |     |       |                    |
| operating temperature |                                                                             | -20 |     | 55    | $^{\circ}\text{C}$ |
| weight                |                                                                             |     | 2.3 |       | g                  |
| material              | metal                                                                       |     |     |       |                    |
| RoHS                  | yes                                                                         |     |     |       |                    |

**SOLDERABILITY**

| parameter      | conditions/description                                |
|----------------|-------------------------------------------------------|
| hand soldering | 370 $\pm$ 10 $^{\circ}\text{C}$ for 3 $\pm$ 1 seconds |

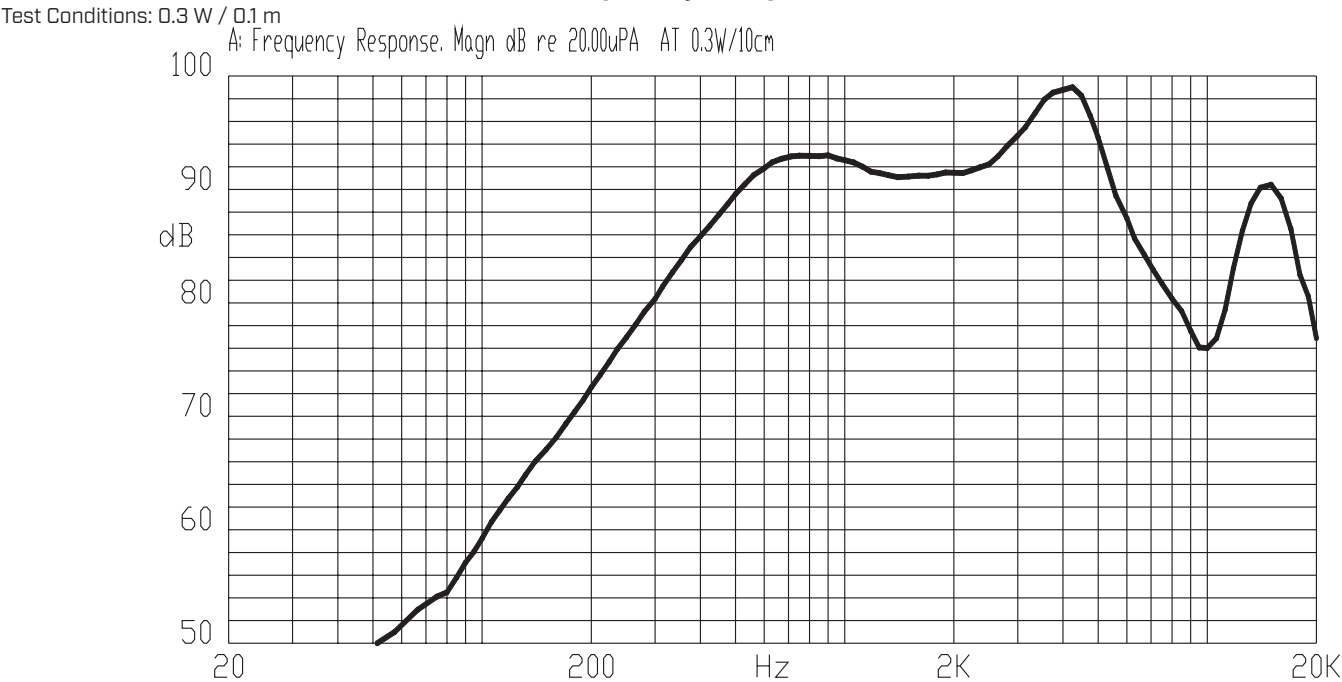
**MECHANICAL DRAWING**

units: mm

tolerance:  $\pm$  0.5mm

RESPONSE CURVES

Frequency Response Curve



THIELE-SMALL PARAMETERS

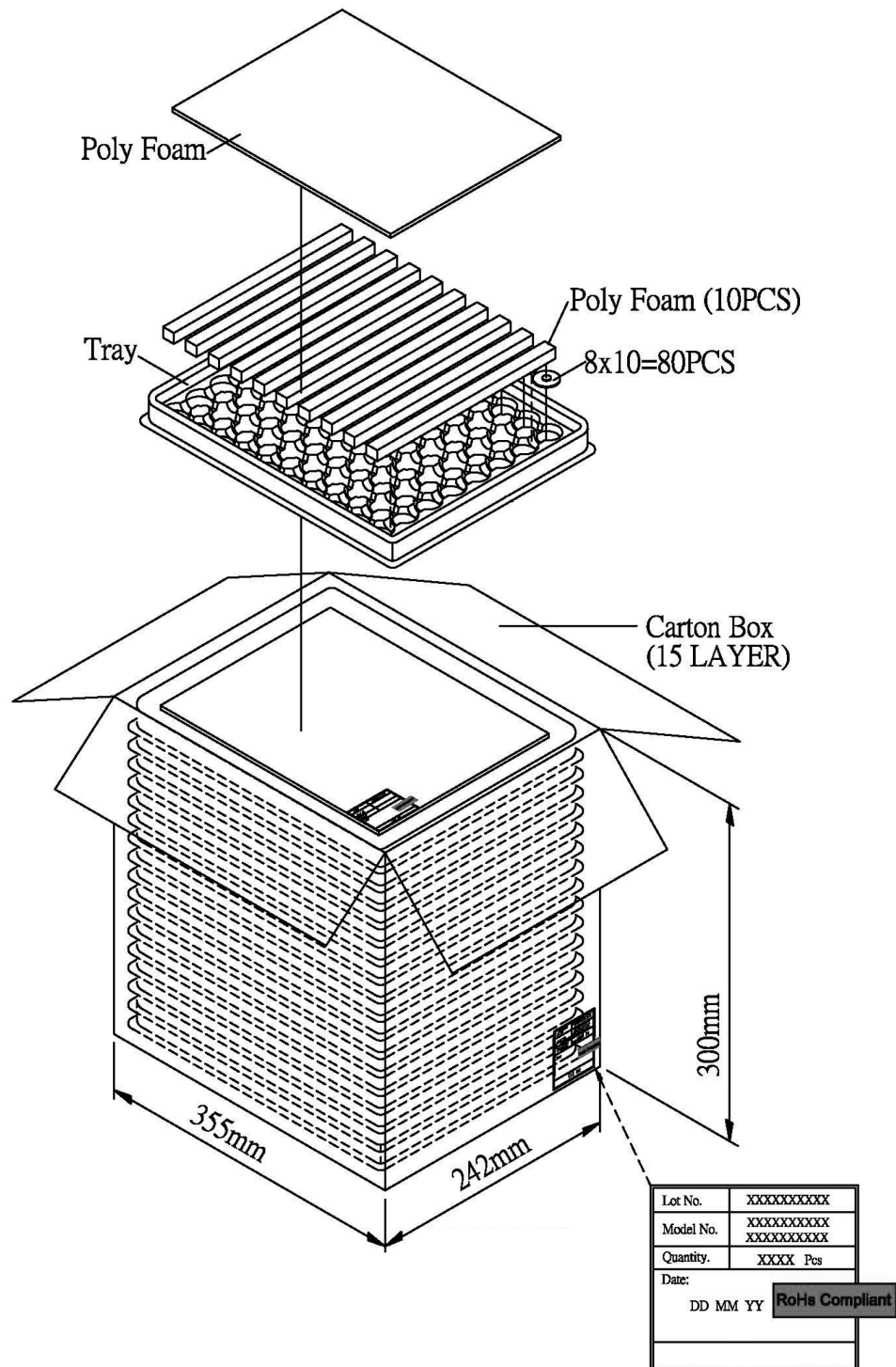
| parameter                    | conditions/description | typ    |
|------------------------------|------------------------|--------|
| Mechanical Q Factor          | Qms                    | 2.0206 |
| Electrical Q Factor          | Qes                    | 8.8014 |
| Total Q Factor               | Qts                    | 1.6433 |
| Compliance Equivalent Volume | Vas                    | 0.0019 |

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

## PACKAGING

units: mm

Tray QTY: 80 pcs per tray  
Carton Size: 355 x 242 x 300 mm  
Carton QTY: 1,200 pcs per carton



REVISION HISTORY

| rev. | description                         | date       |
|------|-------------------------------------|------------|
| 1.0  | initial release                     | 11/09/2011 |
| 1.01 | updated datasheet                   | 12/12/2017 |
| 1.02 | updated packaging QTY, brand update | 12/17/2019 |
| 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       | 02/26/2025 |

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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