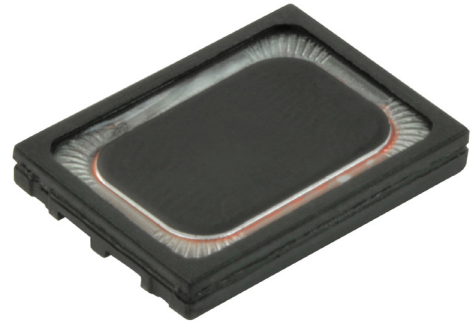


**SERIES:** CMS-15113-078X | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- 8  $\Omega$  impedance
- rated 0.7 W
- 3 available contact methods

**SPECIFICATIONS**

| parameter               | conditions/description                                    | min  | typ   | max    | units              |
|-------------------------|-----------------------------------------------------------|------|-------|--------|--------------------|
| input power             | max power: as per IEC-268-5, in 1 cc box                  |      | 0.7   | 1.0    | W                  |
| impedance               | at 2.0 kHz, 2.37 Vrms                                     | 6.8  | 8     | 9.2    | $\Omega$           |
| coil resistance         |                                                           | 6.48 | 7.2   | 7.92   | $\Omega$           |
| resonant frequency (Fo) | at 1.0 Vrms in free air, 10 cm                            | 560  | 700   | 840    | Hz                 |
|                         | at 2.37 Vrms in 1 cc box, 10 cm                           | 800  | 1,000 | 1,200  | Hz                 |
| frequency response      |                                                           | 100  |       | 20,000 | Hz                 |
| sound pressure level    | at 0.7 W, 10 cm, avg 0.8, 1.0, 1.5, 2.0 kHz, 1 cc box     | 88   | 91    | 94     | dB                 |
| distortion              | at 800~1,200 Hz, 2.37 Vrms, 10 cm                         |      |       | 15     | %                  |
|                         | at 1,201~5,000 Hz, 2.37 Vrms, 10 cm                       |      |       | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, 0.2~2 kHz, 1 cc box          |      |       | 2.37   | Vrms               |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |       |        |                    |
| dimensions              | 15 x 11 x 3                                               |      |       |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |      |       |        |                    |
| cone material           | PEEK                                                      |      |       |        |                    |
| weight                  |                                                           |      | 1.5   |        | g                  |
| operating temperature   |                                                           | -20  |       | 70     | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -40  |       | 85     | $^{\circ}\text{C}$ |
| hand soldering          | for maximum 3 seconds (N/A for spring contacts)           |      |       | 380    | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                       |      |       |        |                    |

Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$ , humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

**PART NUMBER KEY****CMS-15113-078 XX**

Base Number

Termination Options:

S = spring contacts

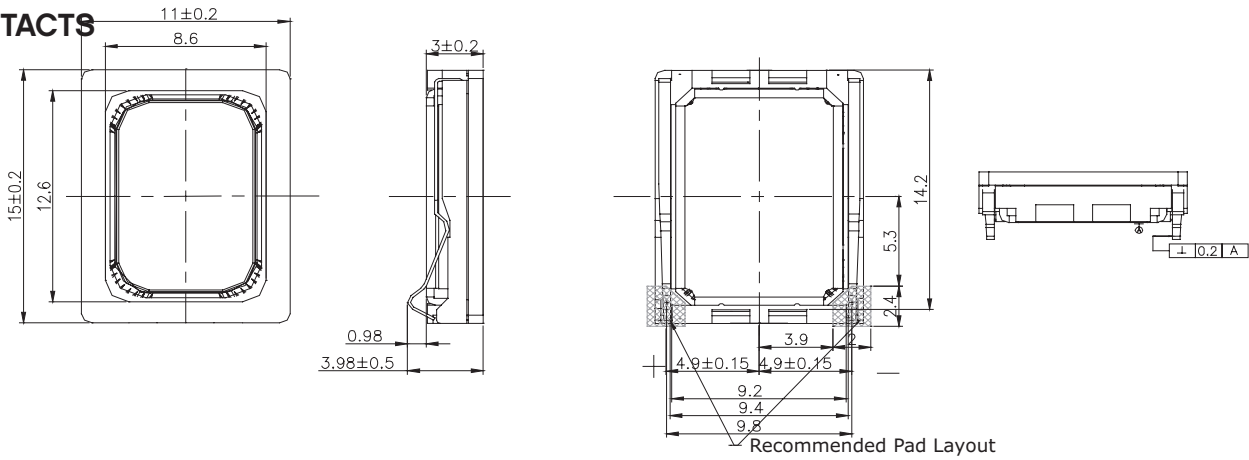
SP = solder pads

L100 = wire leads

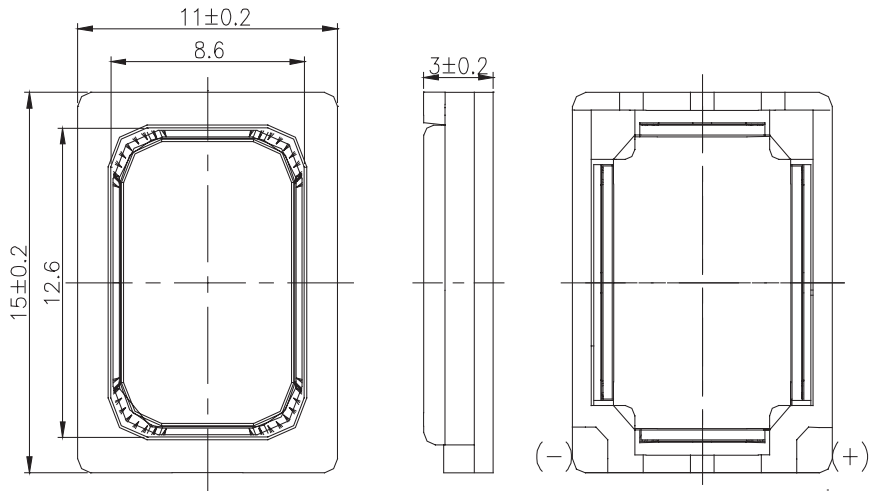
MECHANICAL DRAWINGS

units: mm  
tolerance:  $\pm 0.2$  mm

SPRING CONTACTS

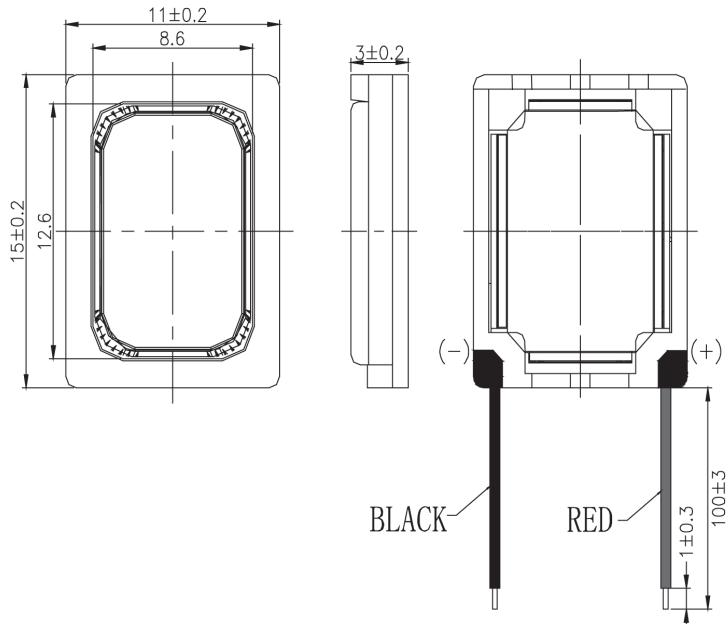


SOLDER PADS



WIRE LEADS

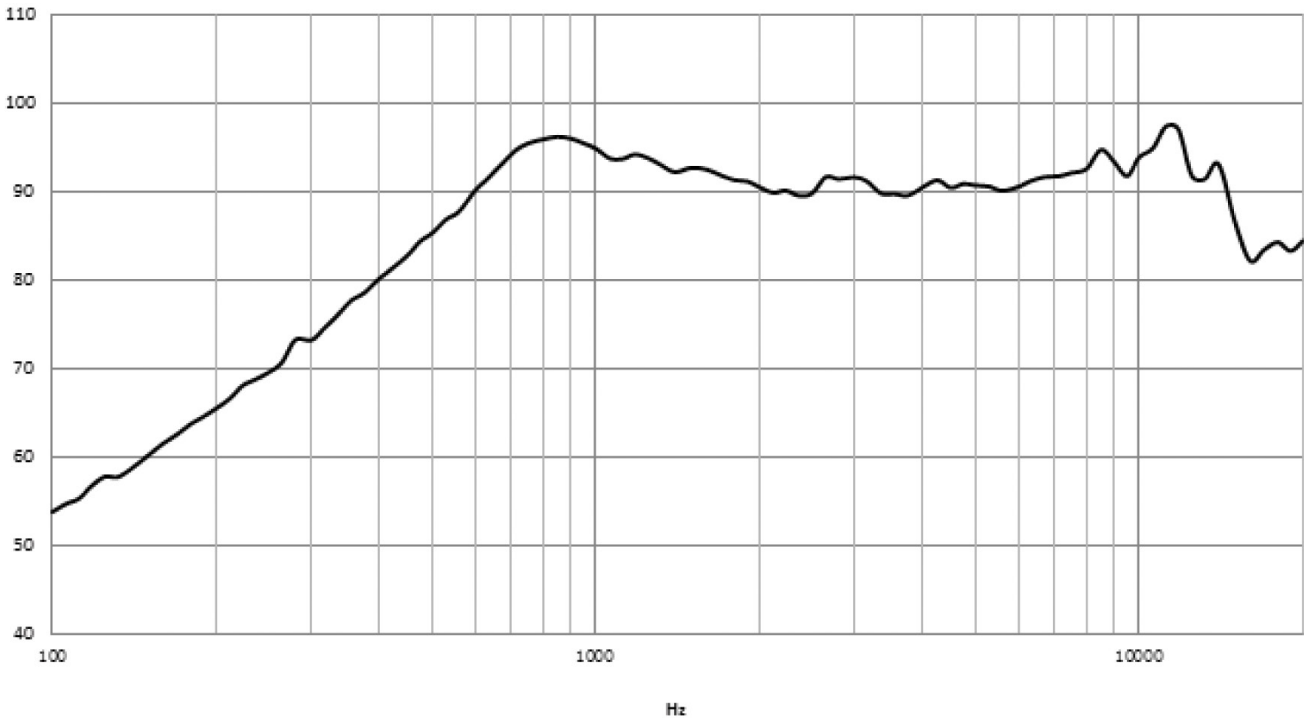
wire: UL 1571, 32 AWG



RESPONSE CURVES

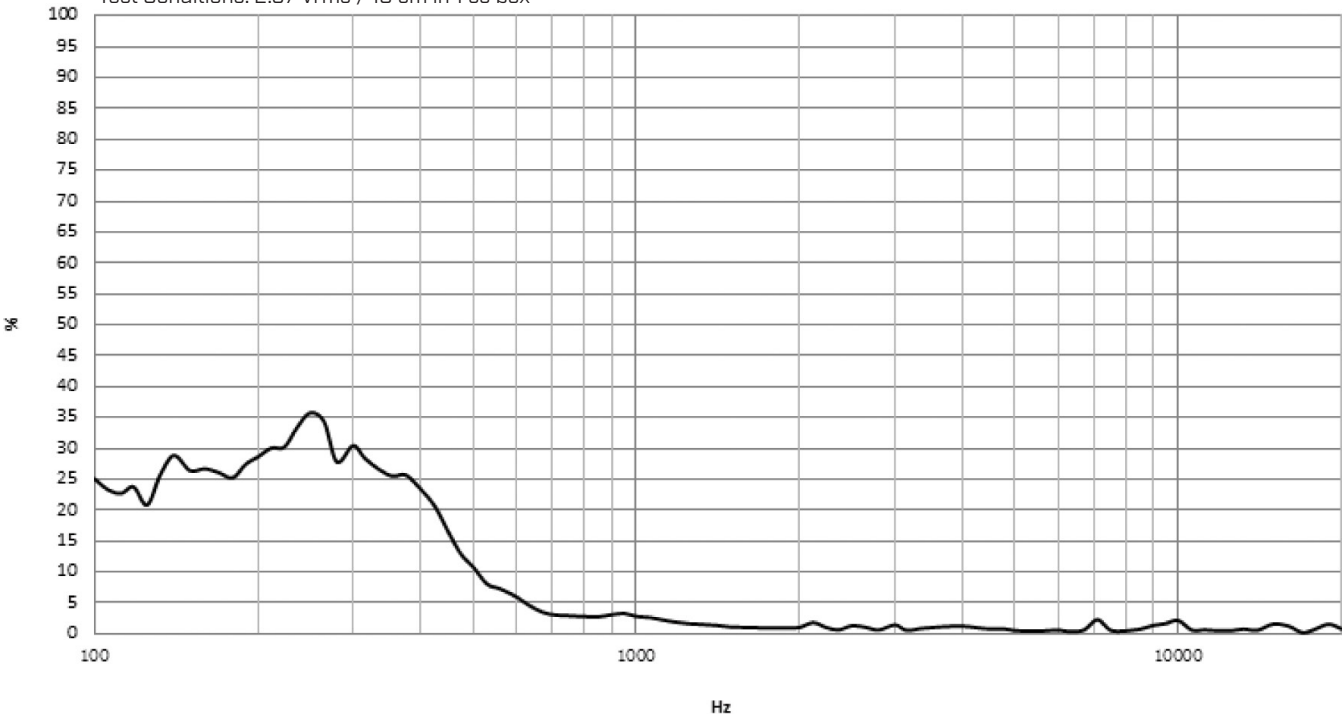
Frequency Response Curve

Test Conditions: 2.37 Vrms / 10 cm in 1 cc box



Total Harmonic Distortion Curve

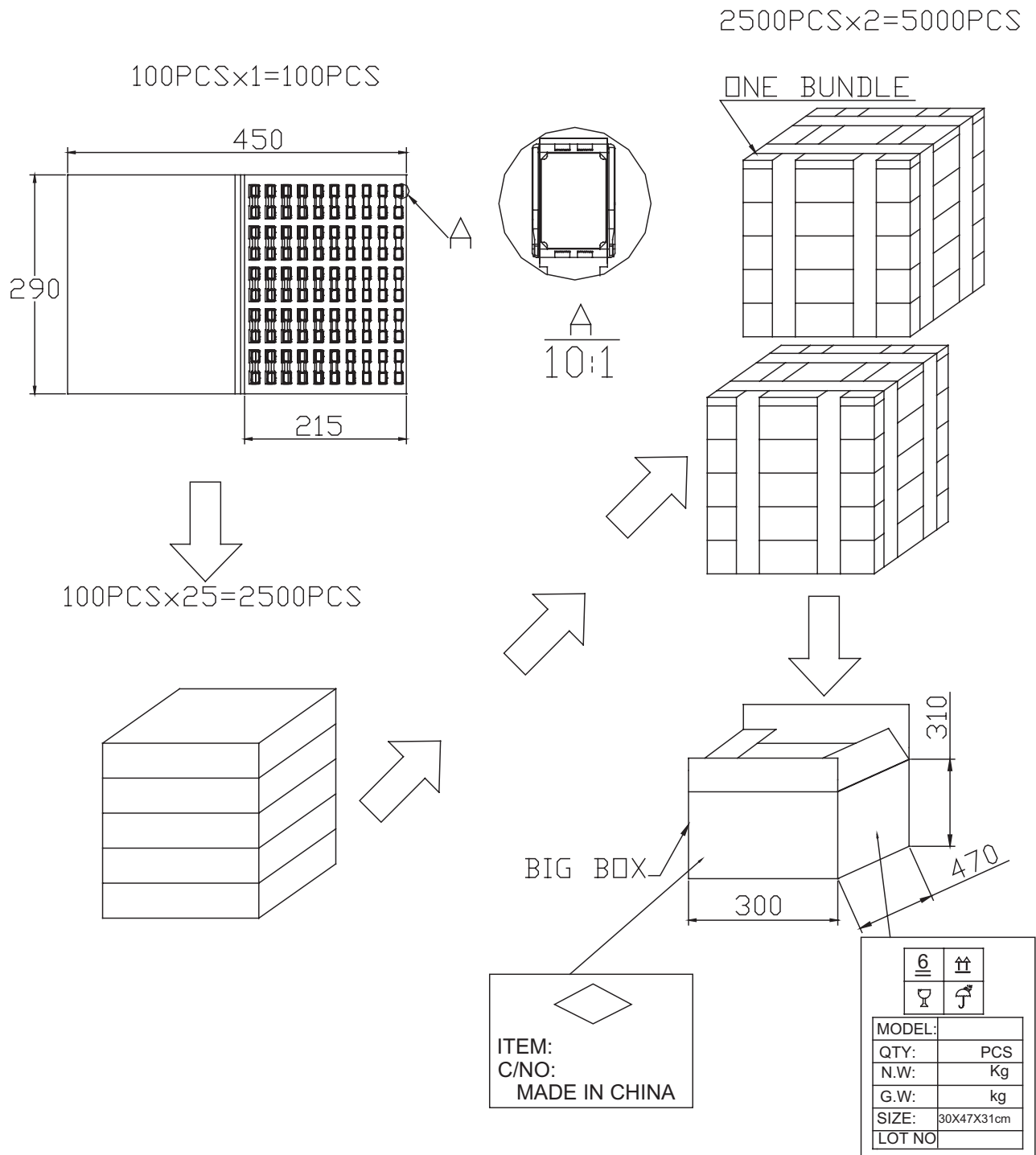
Test Conditions: 2.37 Vrms / 10 cm in 1 cc box



## PACKAGING

units: mm

Tray QTY: 100 pcs per tray  
Tray Size: 290 x 215 mm  
Carton Size: 470 x 300 x 310 mm  
Carton QTY: 5,000 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 03/23/2018 |
| 1.01 | brand update                      | 12/16/2019 |
| 1.02 | updated packaging                 | 06/03/2020 |
| 1.03 | logo, datasheet style update      | 08/05/2022 |
| 1.04 | CUI Devices rebranded to Same Sky | 09/11/2024 |

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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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