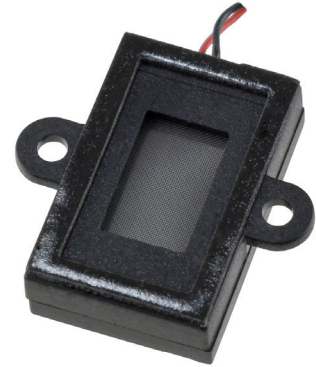


**SERIES:** CES-20134-088PM | **DESCRIPTION:** SPEAKER**FEATURES**

- 0.8 W power rating
- dust proof mesh
- 60 mm lead wire
- 2 panel mount flanges
- wire leads with connector options

**SPECIFICATIONS**

| parameter               | conditions/description                                    | min   | typ   | max    | units              |
|-------------------------|-----------------------------------------------------------|-------|-------|--------|--------------------|
| input power             | max power: 1 second on, 59 seconds off, 60 cycles         |       | 0.8   | 1.0    | W                  |
| impedance               | at 2.0 kHz, 2.53 Vrms                                     | 6.4   | 8     | 9.6    | $\Omega$           |
| resonant frequency [Fo] | at 2.53 Vrms, 10 cm                                       | 1,040 | 1,300 | 1,560  | Hz                 |
| frequency response      | as per IEC 268-5                                          | 500   |       | 20,000 | Hz                 |
| sound pressure level    | at 0.8 W, 10 cm, avg at 1.1, 1.3, 1.5 & 2 kHz             | 88    | 91    | 94     | dB                 |
| distortion              | at 2.0 kHz, rated power, 10 cm                            |       |       | 10     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave, frequency range              |       |       | 2.53   | V                  |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |       |       |        |                    |
| dimensions              | 20 x 13 x 4.87                                            |       |       |        | mm                 |
| magnet                  | Nd-Fe-B                                                   |       |       |        |                    |
| enclosure material      | ABS+PC                                                    |       |       |        |                    |
| cone material           | PEEK                                                      |       |       |        |                    |
| terminal                | wire leads                                                |       |       |        |                    |
| weight                  |                                                           | 1.5   | 2     | 2.5    | g                  |
| operating temperature   |                                                           | -20   |       | 70     | $^{\circ}\text{C}$ |
| storage temperature     |                                                           | -40   |       | 85     | $^{\circ}\text{C}$ |
| 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****CES-20134-088PM X**

Base Number

Termination Options:

"blank" = wire leads, no connector

A = wire leads with Molex housing 51021-0200

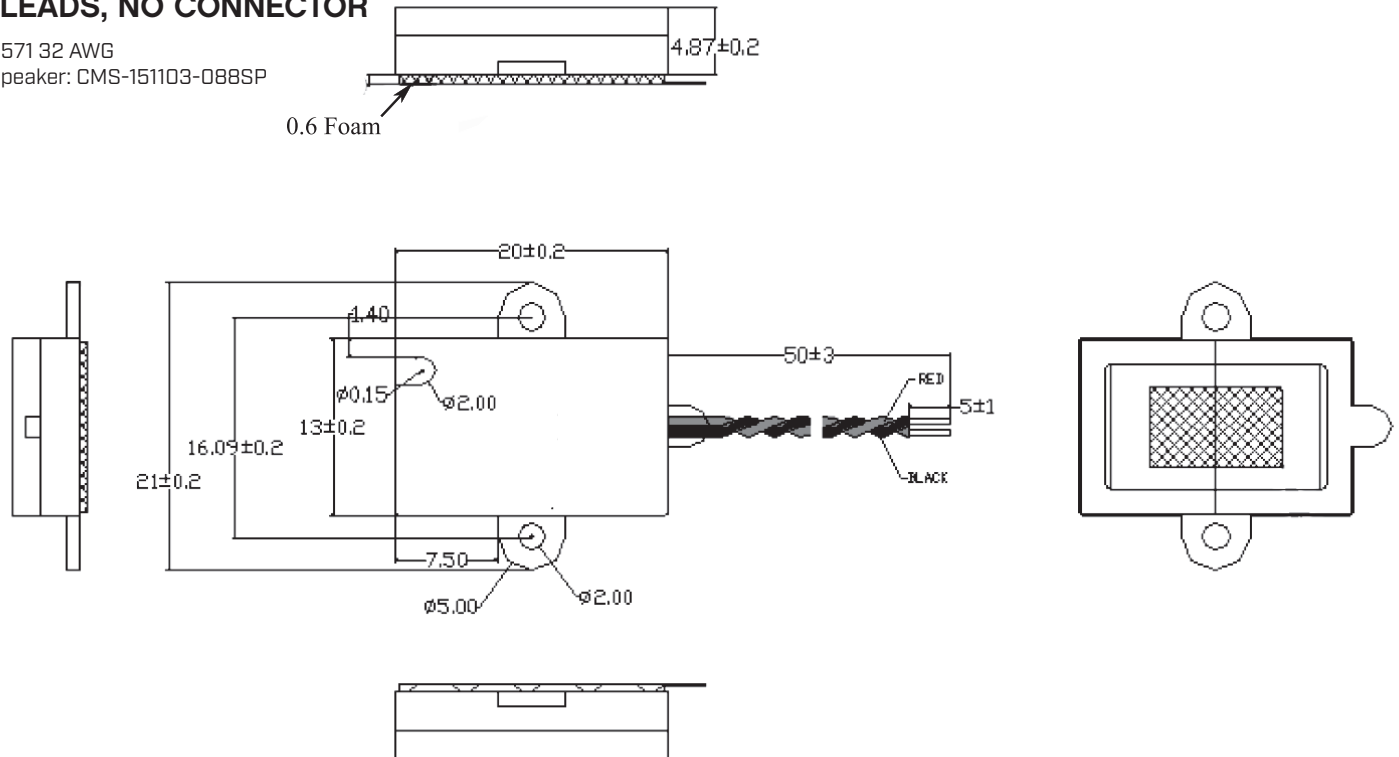
B = wire leads with JST housing SHR-02V-S-B

## MECHANICAL DRAWINGS

units: mm  
tolerance:  $\pm 0.2$  mm

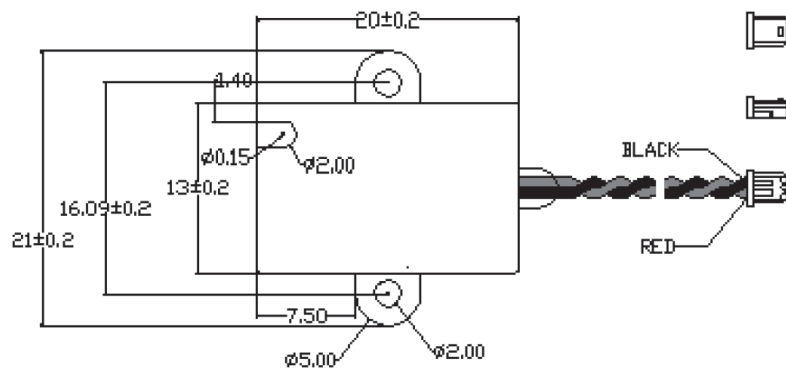
### WIRE LEADS, NO CONNECTOR

wire: UL 1571 32 AWG  
internal speaker: CMS-151103-088SP



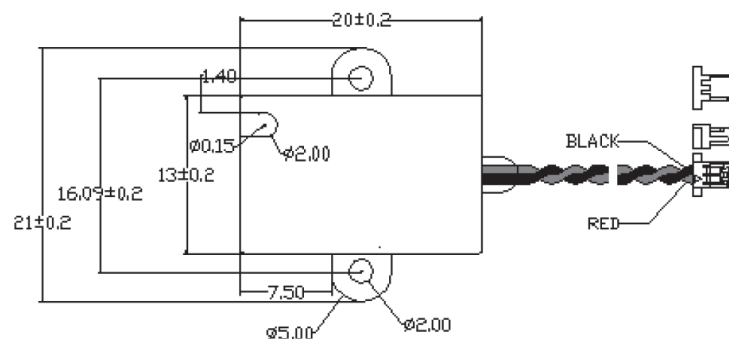
### WIRE LEADS WITH MOLEX CONNECTOR

wire: UL 1571 30 AWG  
connector: Molex 51021-0200  
mating connector: Molex 53261-0271  
internal speaker: CMS-151103-088SP



### WIRE LEADS WITH JST CONNECTOR

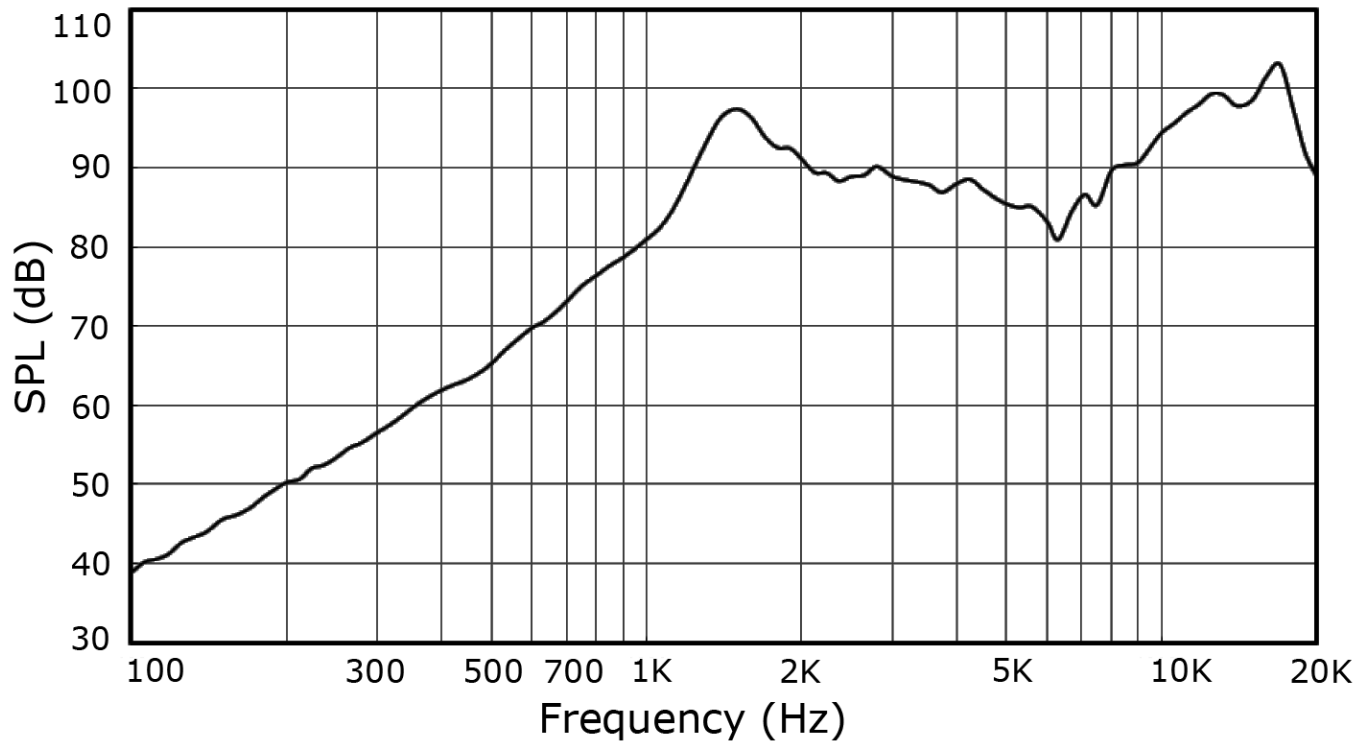
wire: UL 1571 30 AWG  
connector: JST SHR-02V-S-B  
mating connector: JST BM02B-SRSS-TB  
internal speaker: CMS-151103-088SP



## RESPONSE CURVES

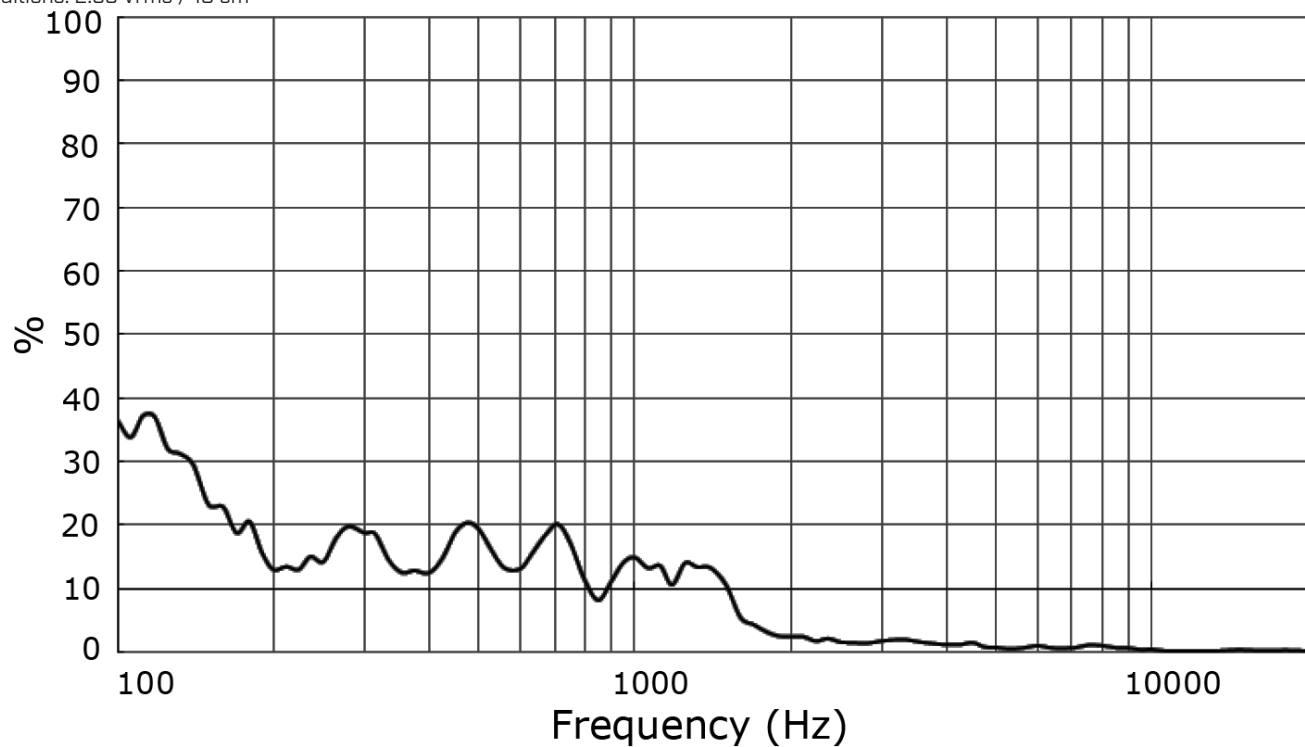
### Frequency Response Curve

Test Conditions: 2.53 Vrms / 10 cm



### Total Harmonic Distortion Curve

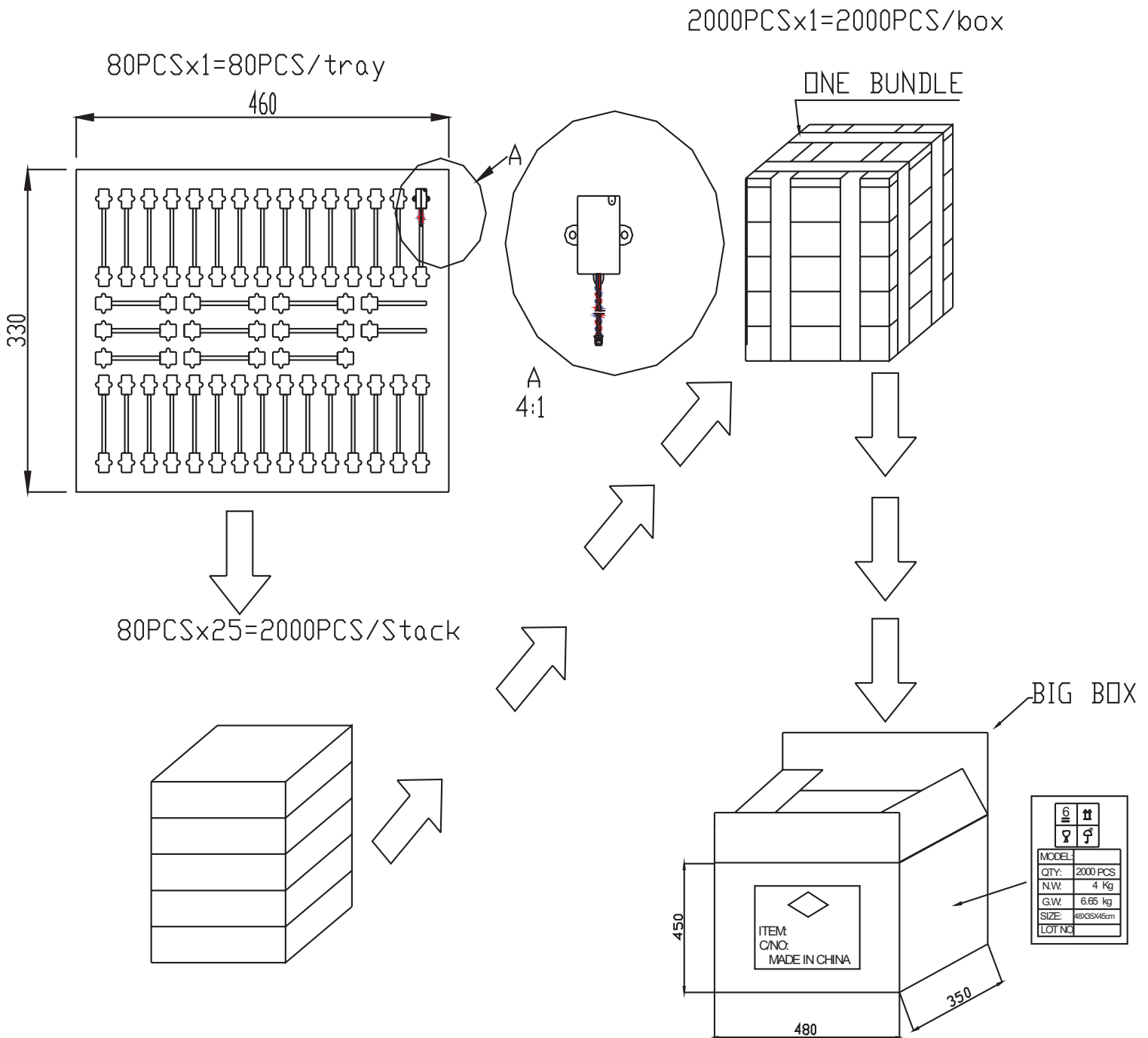
Test Conditions: 2.53 Vrms / 10 cm



## PACKAGING

units: mm

Tray QTY: 80 pcs per tray  
Carton Size: 480 x 350 x 450 mm  
Carton QTY: 2,000 pcs per carton



REVISION HISTORY

| rev. | description                           | date       |
|------|---------------------------------------|------------|
| 1.0  | initial release                       | 11/07/2019 |
| 1.01 | added internal speaker details        | 03/12/2020 |
| 1.02 | added Molex and JST connector options | 10/21/2020 |
| 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.

**sameskydevices.com**