

**SERIES:** CMS-15113-076X-67 | **DESCRIPTION:** SPEAKER
**FEATURES**

- IP67 rated face
- protection against dust and water ingress
- micro-speaker
- 3 mm height
- 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, 2.05 Vrms                                     | 5.1  | 6   | 6.9    | $\Omega$ |
| coil resistance         |                                                           | 4.59 | 5.4 | 6.21   | $\Omega$ |
| resonant frequency (Fo) | at 1.0 Vrms in free air, 10 cm                            | 480  | 600 | 720    | Hz       |
|                         | at 2.05 Vrms in 1 cc box, 10 cm                           | 720  | 900 | 1,080  | 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     | 89   | 92  | 95     | dB       |
| distortion              | at 800~1,200 Hz, 2.05 Vrms, 10 cm                         |      |     | 15     | %        |
|                         | at 1,201~5,000 Hz, 2.05 Vrms, 10 cm                       |      |     | 10     | %        |
| buzz, rattle, etc.      | must be normal at sine wave, 0.2~2 kHz, 1 cc box          |      |     | 2.05   | Vrms     |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |      |     |        |          |
| dimensions              | 15 x 11 x 3                                               |      |     |        | mm       |
| magnet                  | Nd-Fe-B                                                   |      |     |        |          |
| cone material           | mylar                                                     |      |     |        |          |
| weight                  |                                                           |      | 1.5 |        | g        |
| operating temperature   |                                                           | -20  |     | 70     | °C       |
| storage temperature     |                                                           | -40  |     | 85     | °C       |
| hand soldering          | for maximum 3 seconds (N/A for spring contacts)           |      |     | 380    | °C       |
| RoHS                    | yes                                                       |      |     |        |          |
| IP level                | IP67 (front side)                                         |      |     |        |          |

Notes: 1. All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

**PART NUMBER KEY**
**CMS-15113-076 XX - 67**

Base Number

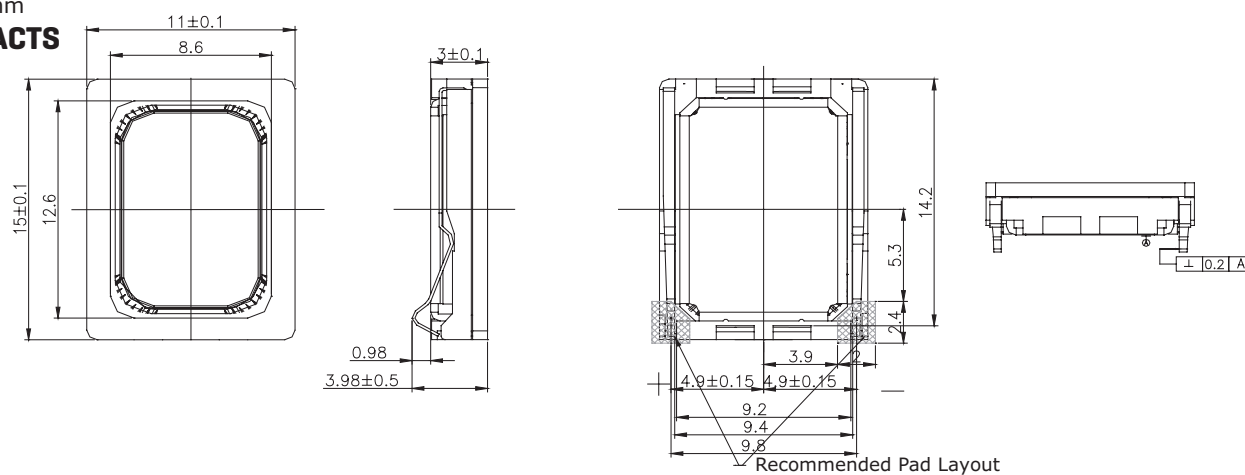
Termination Options:  
 S = spring contacts  
 SP = solder pads  
 L100 = wire leads

## MECHANICAL DRAWINGS

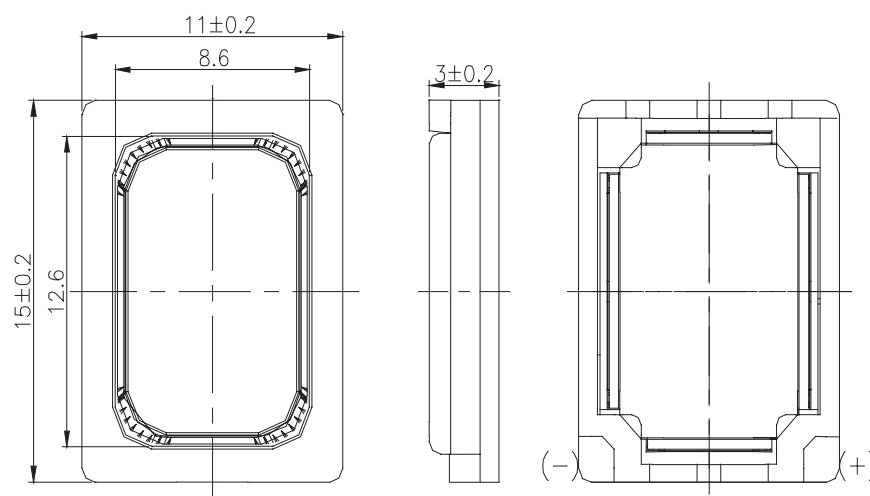
units: mm

tolerance:  $\pm 0.2$  mm

### SPRING CONTACTS

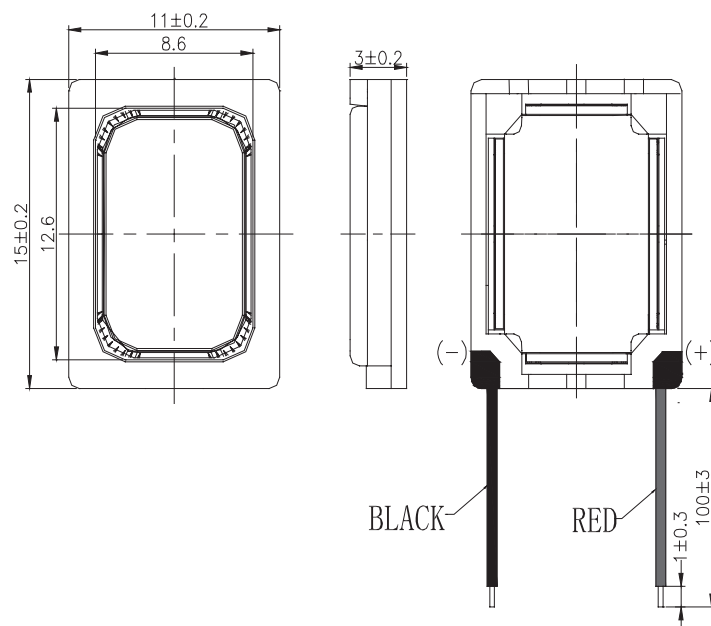


### SOLDER PADS



### WIRE LEADS

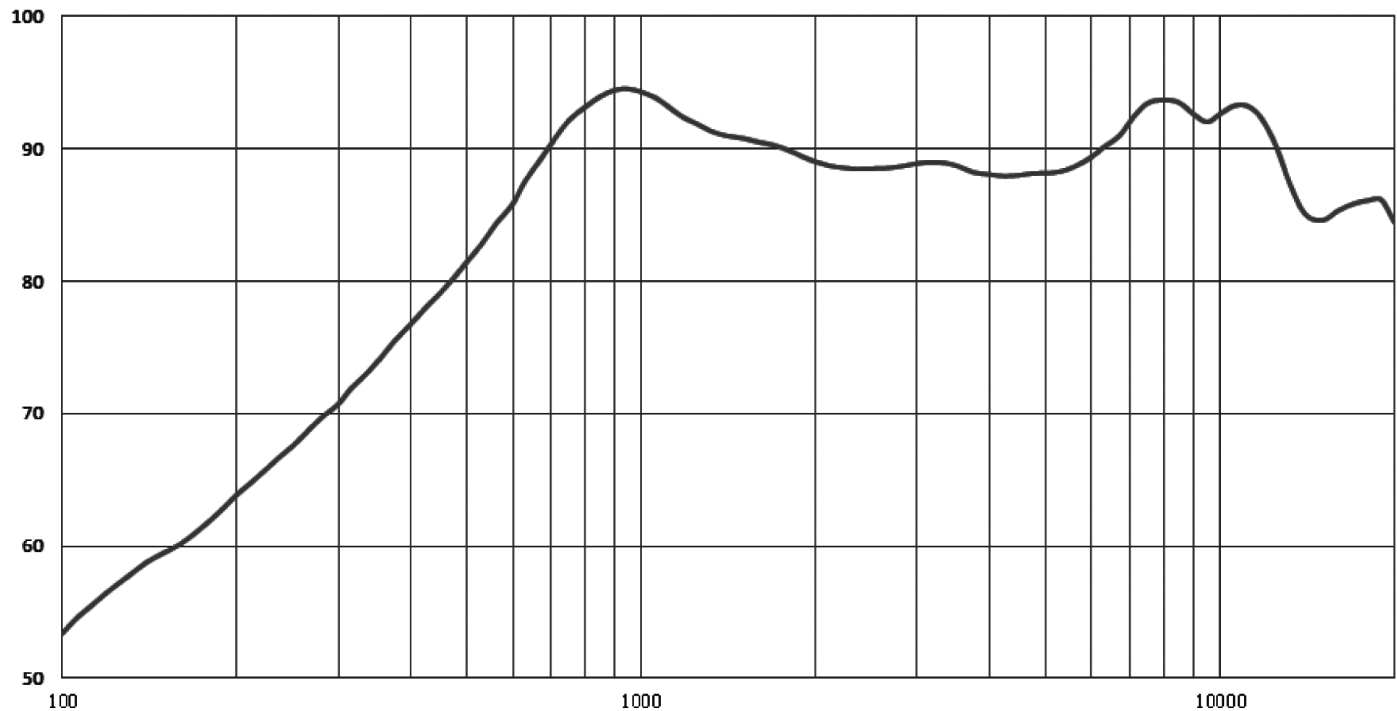
wire: UL 1571, 32 AWG



## RESPONSE CURVES

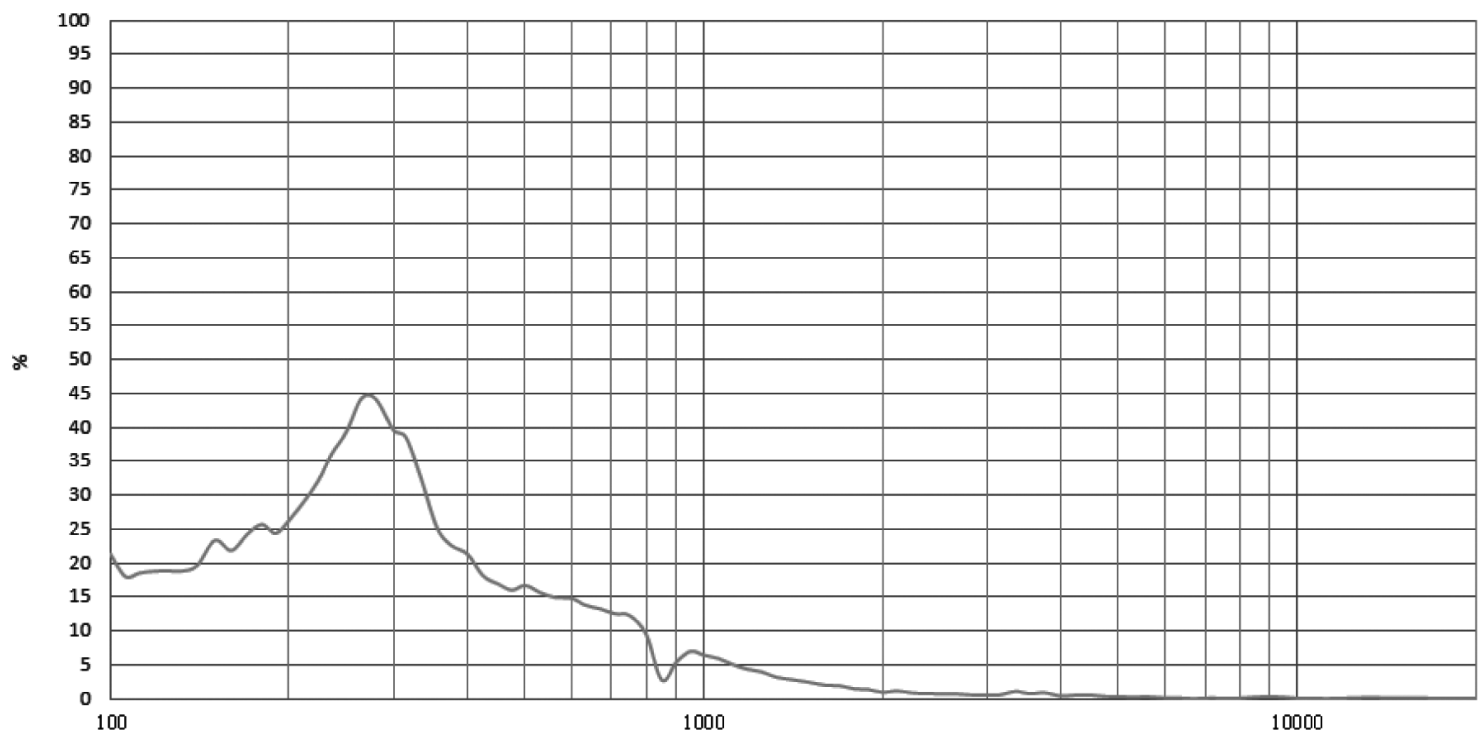
### Frequency Response Curve

Test Conditions: 2.05 Vrms / 10 cm in 1 cc box



### Total Harmonic Distortion Curve

Test Conditions: 2.05 Vrms / 10 cm in 1 cc box

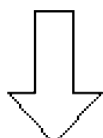
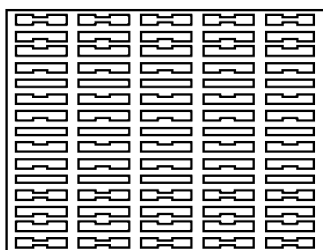


## PACKAGING

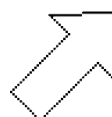
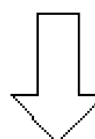
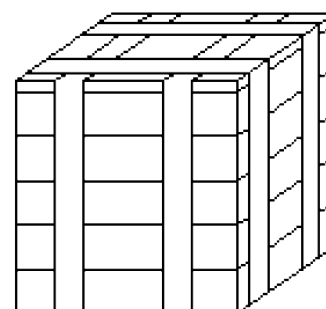
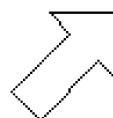
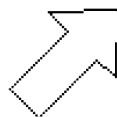
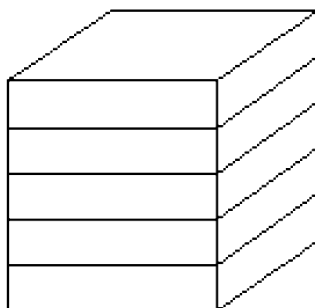
units: mm

Tray QTY: 150 pcs per tray  
Carton Size: 345 x 260 x 390 mm  
Carton QTY: 4,500 pcs per carton

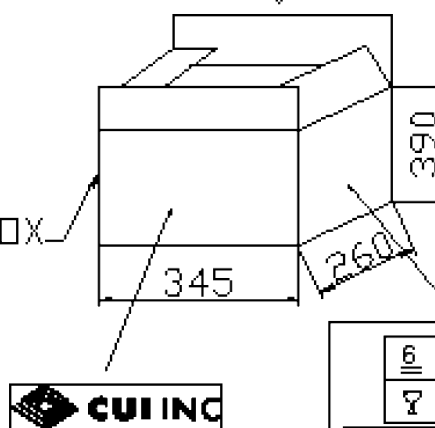
$$150\text{PCS} \times 1 = 150\text{PCS}$$



$$150\text{PCS} \times 30 = 4500\text{PCS}$$



BIG BOX



|        |               |
|--------|---------------|
| 6      | 11            |
| 7      | 5             |
| MODEL: |               |
| QTY:   | PCS           |
| N.W:   | kg            |
| G.W:   | kg            |
| SIZE:  | 345x260x390mm |
| LOT NO |               |

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 07/23/2018 |

The revision history provided is for informational purposes only and is believed to be accurate.



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