

**MODEL:** CES-703316-28PM | **DESCRIPTION:** SPEAKER**FEATURES**

- paper and cloth cone
- 2 screw holes for mounting
- 420 mm lead wire
- connector

**SPECIFICATIONS**

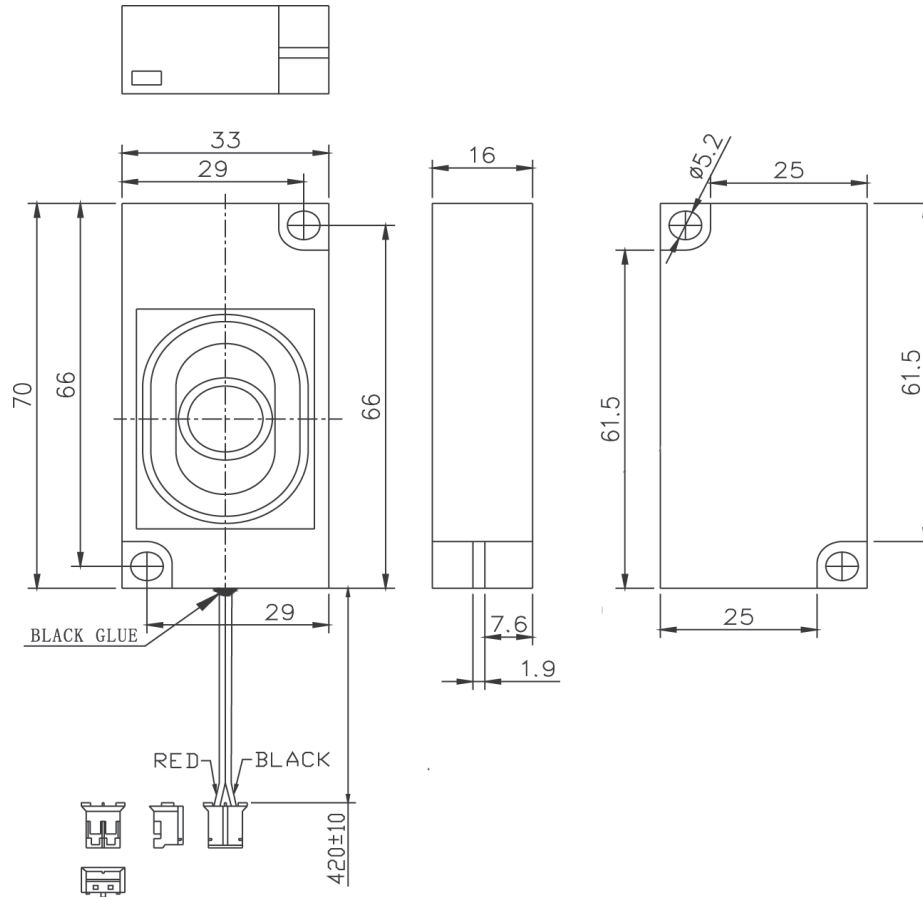
| parameter               | conditions/description                                    | min | typ | max    | units    |
|-------------------------|-----------------------------------------------------------|-----|-----|--------|----------|
| input power             | max power: 1 minute on, 2 minutes off, 10 cycles          |     | 2.0 | 3.0    | W        |
| impedance               | at 1.0 kHz, 1.0 Vrms                                      | 6.8 | 8   | 9.2    | $\Omega$ |
| resonant frequency (Fo) | at 1.0 Vrms, 10 cm                                        | 520 | 650 | 780    | Hz       |
| frequency response      | as per IEC 268-5                                          | Fo  |     | 20,000 | Hz       |
| sound pressure level    | at 2.0 W, 10 cm, avg at 0.8, 1.0, 1.18, 1.5 kHz           | 99  | 102 | 105    | dB       |
| distortion              | at 2.0 kHz, rated power, 10 cm                            |     |     | 10     | %        |
| buzz, rattle, etc.      | must be normal at sine wave, 200~20,000 Hz                |     |     | 4.0    | V        |
| polarity                | cone moves forward w/ positive dc current to "+" terminal |     |     |        |          |
| dimensions              | 70 x 33 x 16                                              |     |     |        | mm       |
| magnet                  | Nd-Fe-B                                                   |     |     |        |          |
| enclosure material      | ABS                                                       |     |     |        |          |
| cone material           | paper + cloth                                             |     |     |        |          |
| terminal                | wire leads w/ connector                                   |     |     |        |          |
| weight                  |                                                           |     | 25  |        | g        |
| operating temperature   |                                                           | -20 |     | 60     | °C       |
| storage temperature     |                                                           | -30 |     | 70     | °C       |
| RoHS                    | yes                                                       |     |     |        |          |

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

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

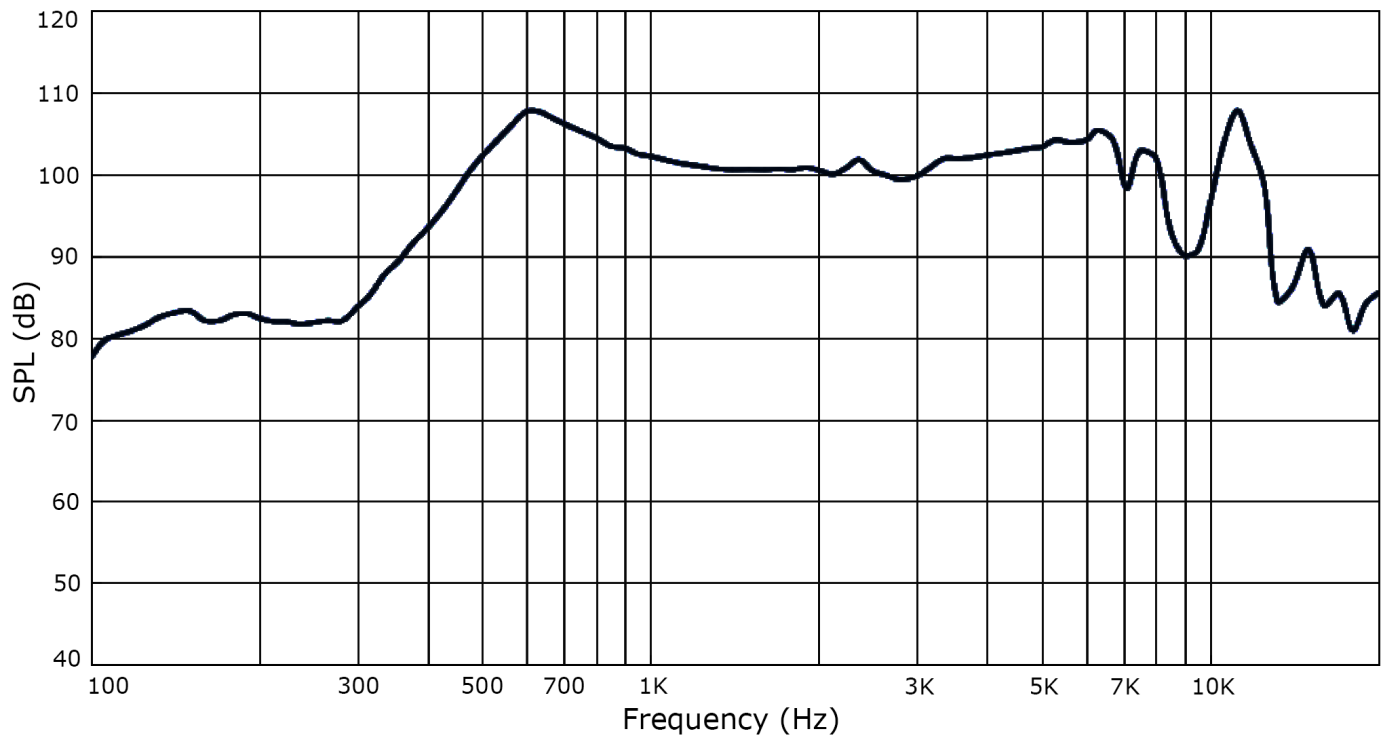
wire: UL1007 28 AWG  
internal speaker: CMS-402811-28SP  
connector: JST PHR-2  
terminal: JST SPH-002T-P0.5S



## RESPONSE CURVES

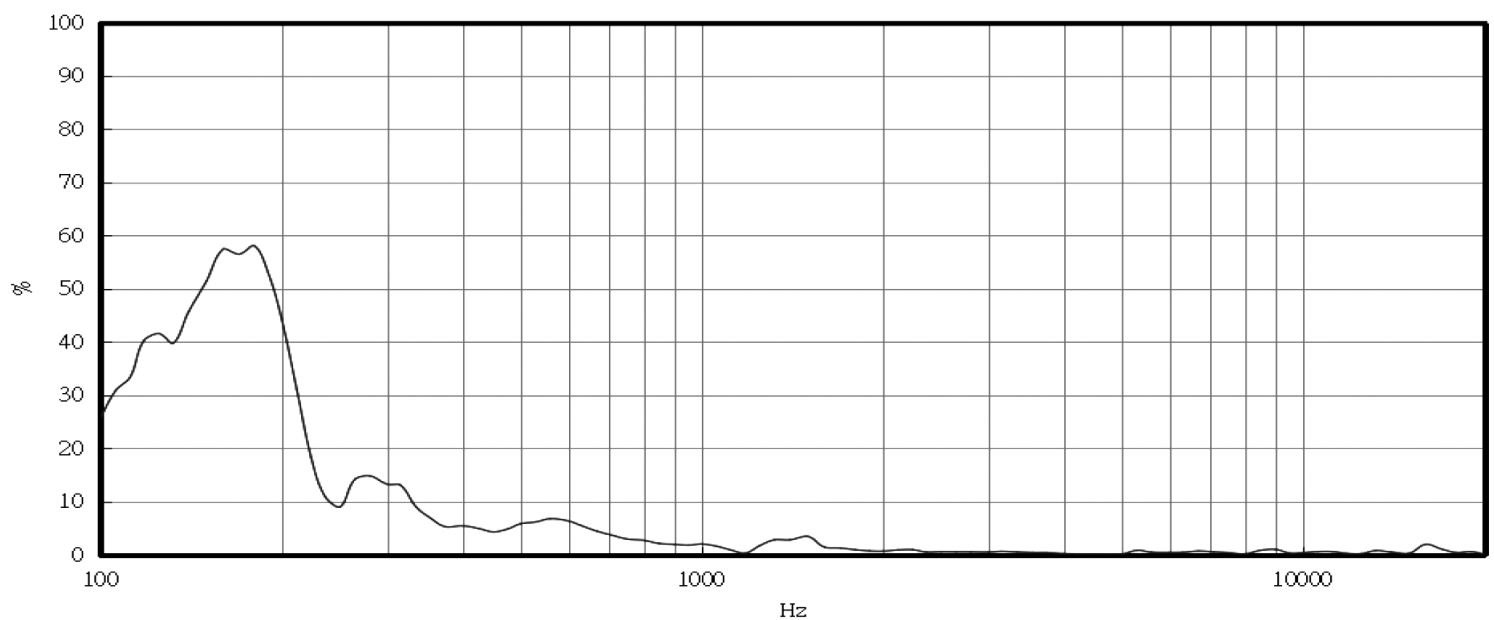
### Frequency Response Curve

Test Conditions: 4.0 Vrms / 10 cm



### Total Harmonic Distortion Curve

Test Conditions: 4.0 Vrms / 10 cm



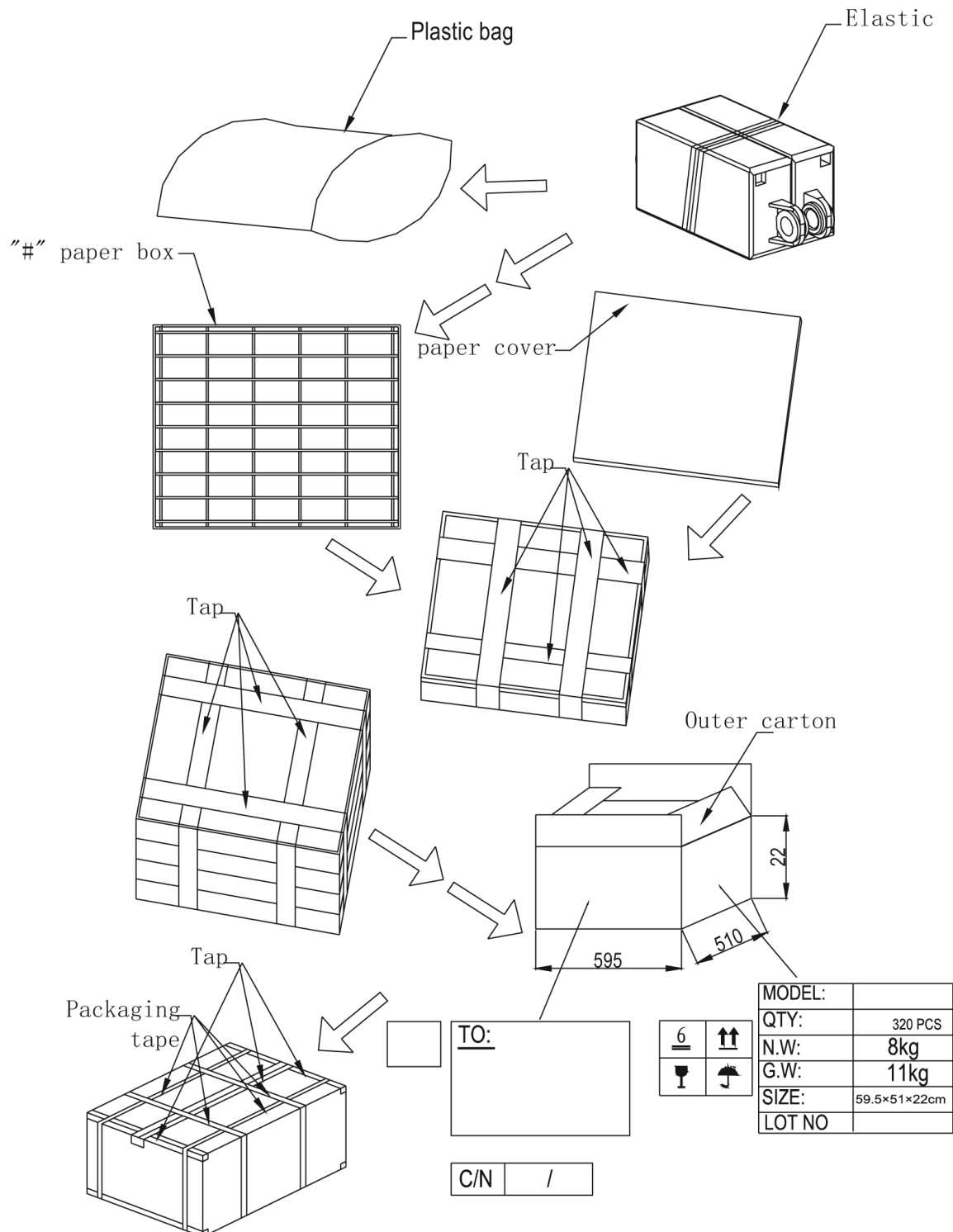
## PACKAGING

units: mm

Tray QTY: 80 pcs per tray (40 sets per box)

Carton Size: 595 x 510 x 220 mm

Carton QTY: 320 pcs per carton



## REVISION HISTORY

| rev. | description                    | date       |
|------|--------------------------------|------------|
| 1.0  | initial release                | 11/06/2019 |
| 1.01 | added internal speaker details | 03/12/2020 |
| 1.02 | logo, datasheet style update   | 08/05/2022 |

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



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