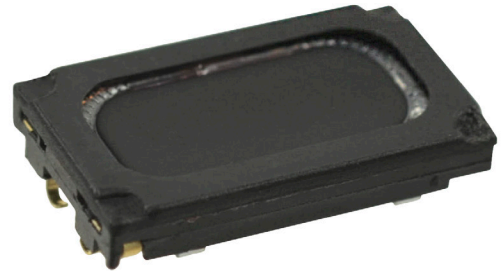


**MODEL:** CMS-160916A-SP | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- small footprint
- low profile
- spring leads

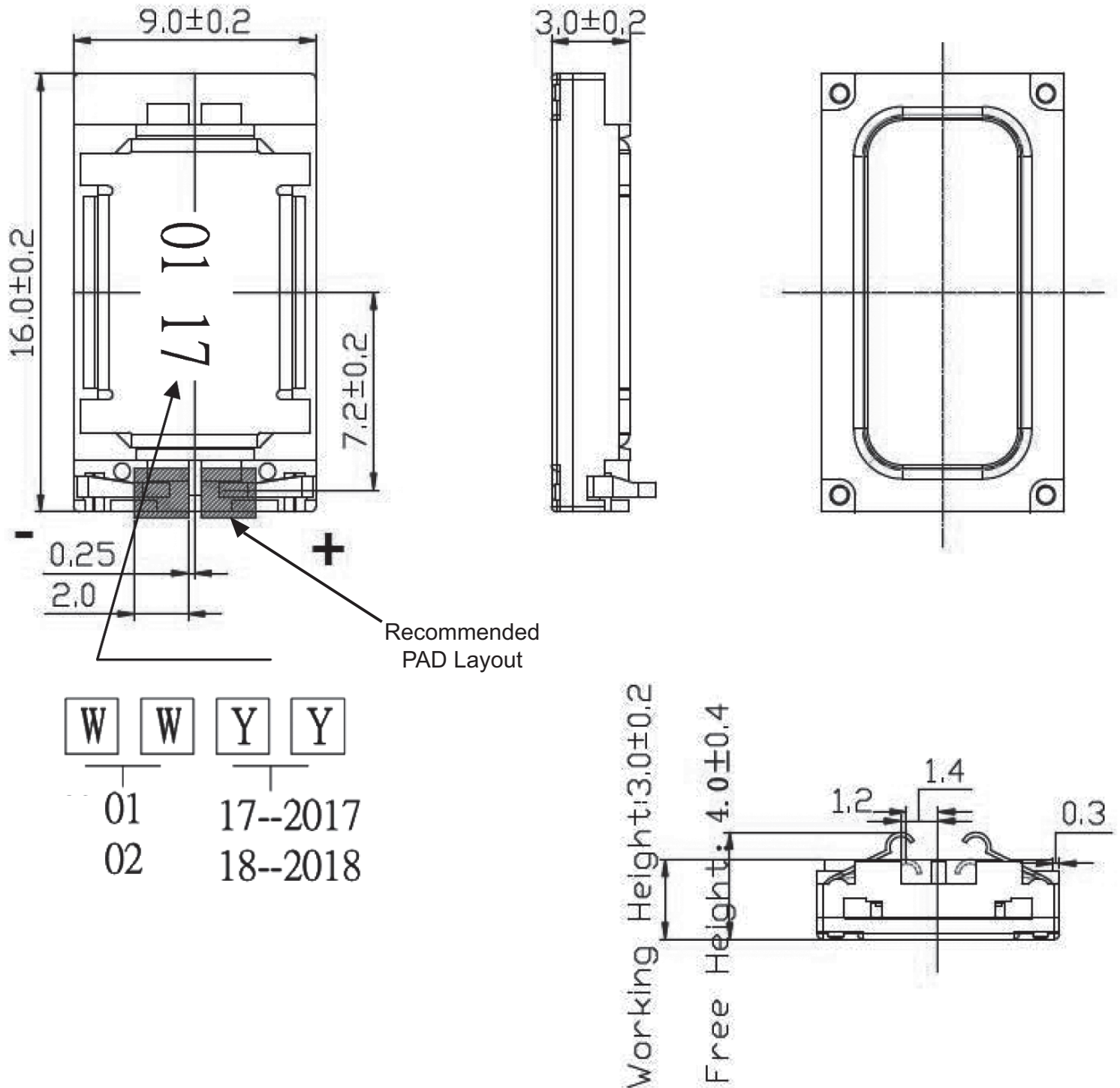
**SPECIFICATIONS**

| parameter               | conditions/description                                                                        | min   | typ | max    | units              |
|-------------------------|-----------------------------------------------------------------------------------------------|-------|-----|--------|--------------------|
| input power             | maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp in 1 cc closed box |       | 0.8 | 1.0    | W                  |
| impedance               | at 2.0 kHz                                                                                    | 5.1   | 6   | 6.9    | $\Omega$           |
| resonant frequency (Fo) | at 1.0 V                                                                                      | 552.5 | 650 | 747.5  | Hz                 |
|                         | at 1.0 V in 1 cc closed box                                                                   | 765   | 900 | 1,035  | Hz                 |
| frequency response      | output SPL $\pm 10$ dB                                                                        | Fo    |     | 20,000 | Hz                 |
| sound pressure level    | at 0.8 W, 0.1 m, at 2.0 kHz in 1 cc closed box                                                | 85    | 88  | 91     | dB                 |
| distortion              | at 1.0 kHz, 0.8 W                                                                             |       |     | 15     | %                  |
| buzz, rattle, etc.      | must be normal at sine wave between Fo ~ 20 kHz in 1 cc closed box                            |       | 2.2 |        | V                  |
| polarity                | cone will move forward with positive dc current to "+" terminal                               |       |     |        |                    |
| dimensions              | 16 x 9.0 x 3.0                                                                                |       |     |        | mm                 |
| magnet                  | Nd-Fe-B                                                                                       |       |     |        |                    |
| material                | PBT                                                                                           |       |     |        |                    |
| cone material           | PEEK                                                                                          |       |     |        |                    |
| terminal                | spring contact                                                                                |       |     |        |                    |
| weight                  |                                                                                               |       | 1.0 |        | g                  |
| operating temperature   |                                                                                               | -20   |     | 75     | $^{\circ}\text{C}$ |
| storage temperature     |                                                                                               | -30   |     | 85     | $^{\circ}\text{C}$ |
| RoHS                    | yes                                                                                           |       |     |        |                    |

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$ , humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

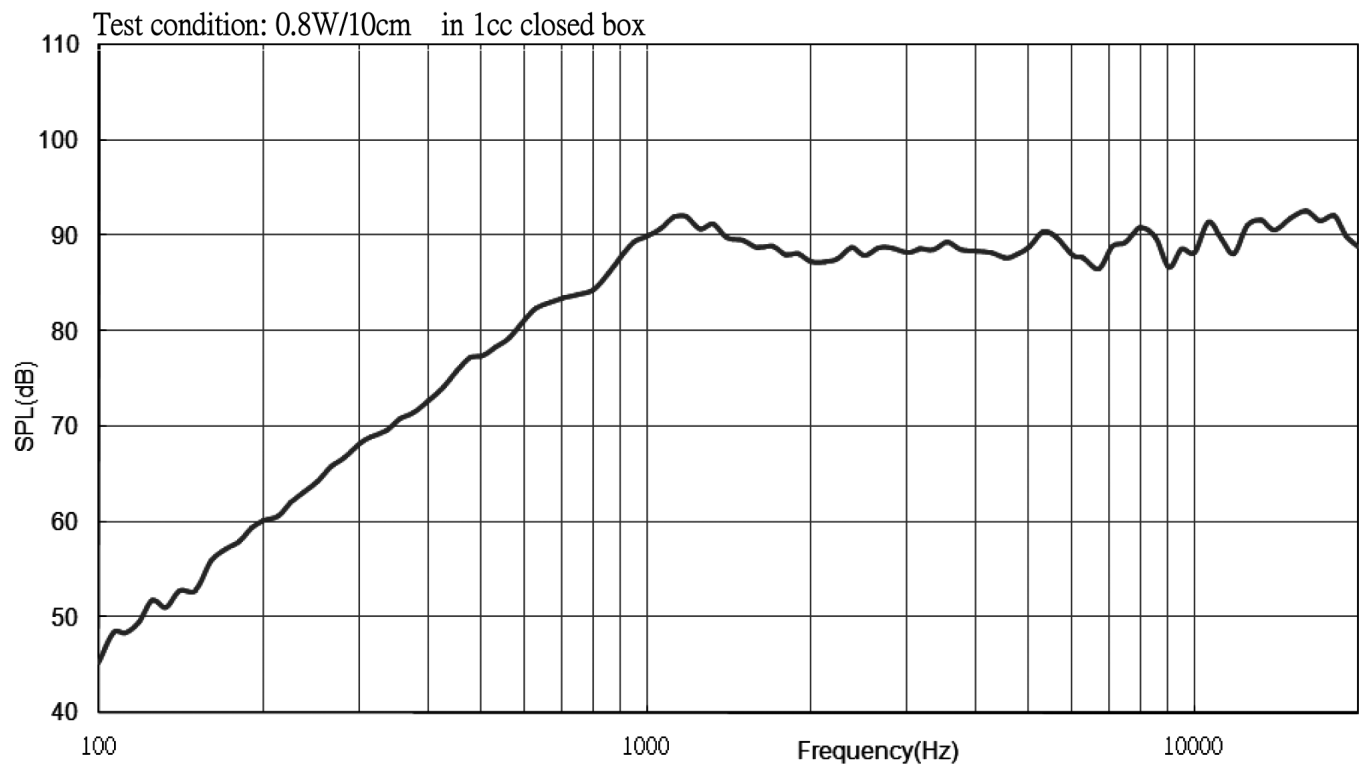
units: mm  
tolerance:  $\pm 0.2$  mm



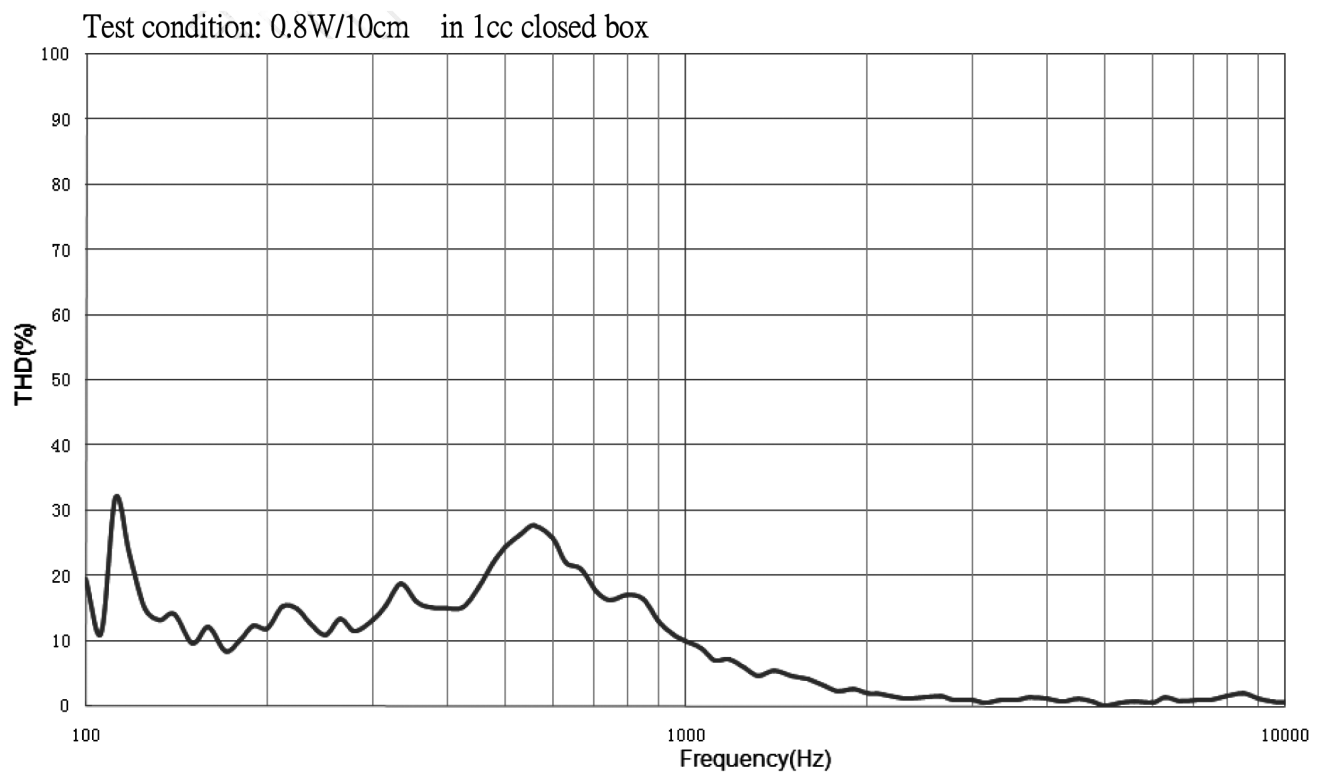
Note: 1. Maximum compression force between front frame and back frame 8 yoke is 5 N.

## RESPONSE CURVES

### Frequency Response Curve



### Total Harmonic Distortion Curve

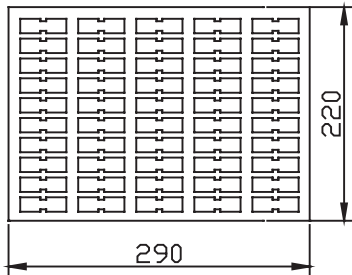


## PACKAGING

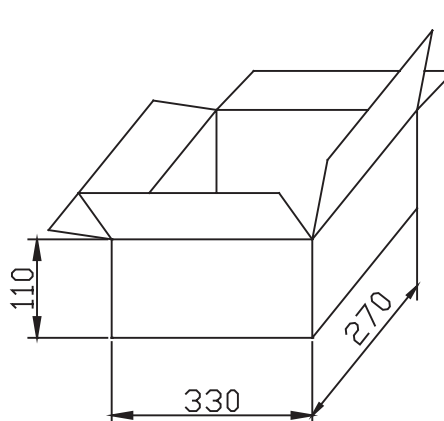
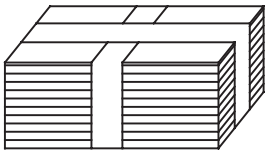
units: mm

Tray Size: 290 x 220 mm  
Carton Size: 590 x 350 x 290 mm  
Tray QTY: 100 pcs per tray  
Carton QTY: 5,000 pcs per carton

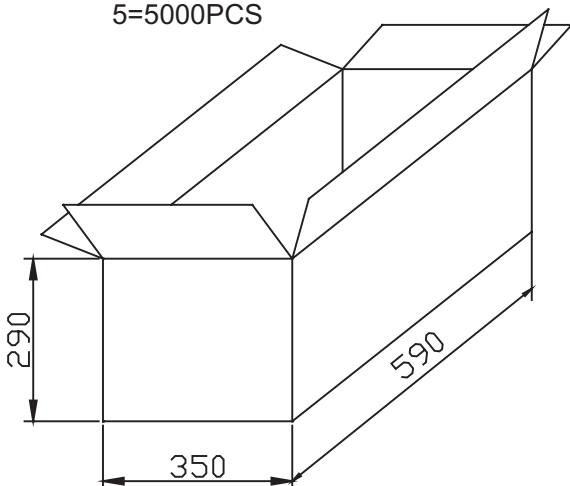
100PCS



100 %  
10=1000PCS



1000 %  
5=5000PCS



|           |                         |
|-----------|-------------------------|
| Lot No.   | XXXXXXXXXX              |
| Part No.  | CUI Inv#.<br>CUI Part#. |
| Quantity. | XXXX Pcs                |
| Date:     | DD MM YY                |
|           | MADE IN CHINA           |

**RoHs Compliant**

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 07/06/2017 |
| 1.01 | updated packaging            | 12/17/2019 |
| 1.02 | logo, datasheet style update | 08/05/2022 |

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



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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