

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

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

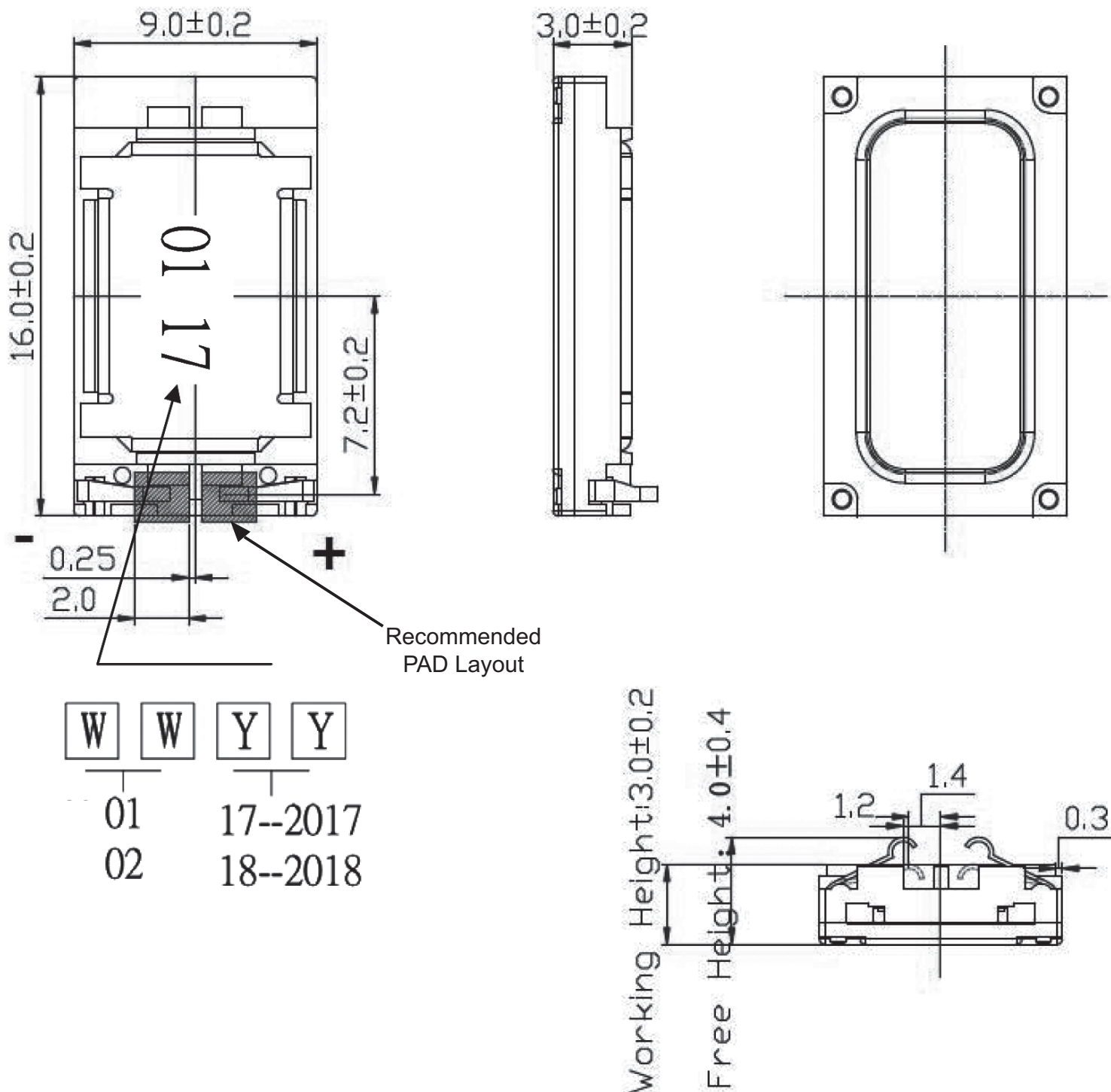
**SPECIFICATIONS**

| 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<br>at 1.0 V in 1 cc closed box                                                       | 552.5<br>765 | 650<br>900 | 747.5<br>1,035 | Hz<br>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           | mylar                                                                                         |              |            |                |                    |
| terminal                | spring contact                                                                                |              |            |                |                    |
| weight                  |                                                                                               |              | 1.0        |                | g                  |
| operating temperature   |                                                                                               | -20          |            | 75             | $^{\circ}\text{C}$ |
| storage temperature     |                                                                                               | -30          |            | 85             | $^{\circ}\text{C}$ |
| RoHS                    | 2011/65/EU                                                                                    |              |            |                |                    |

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

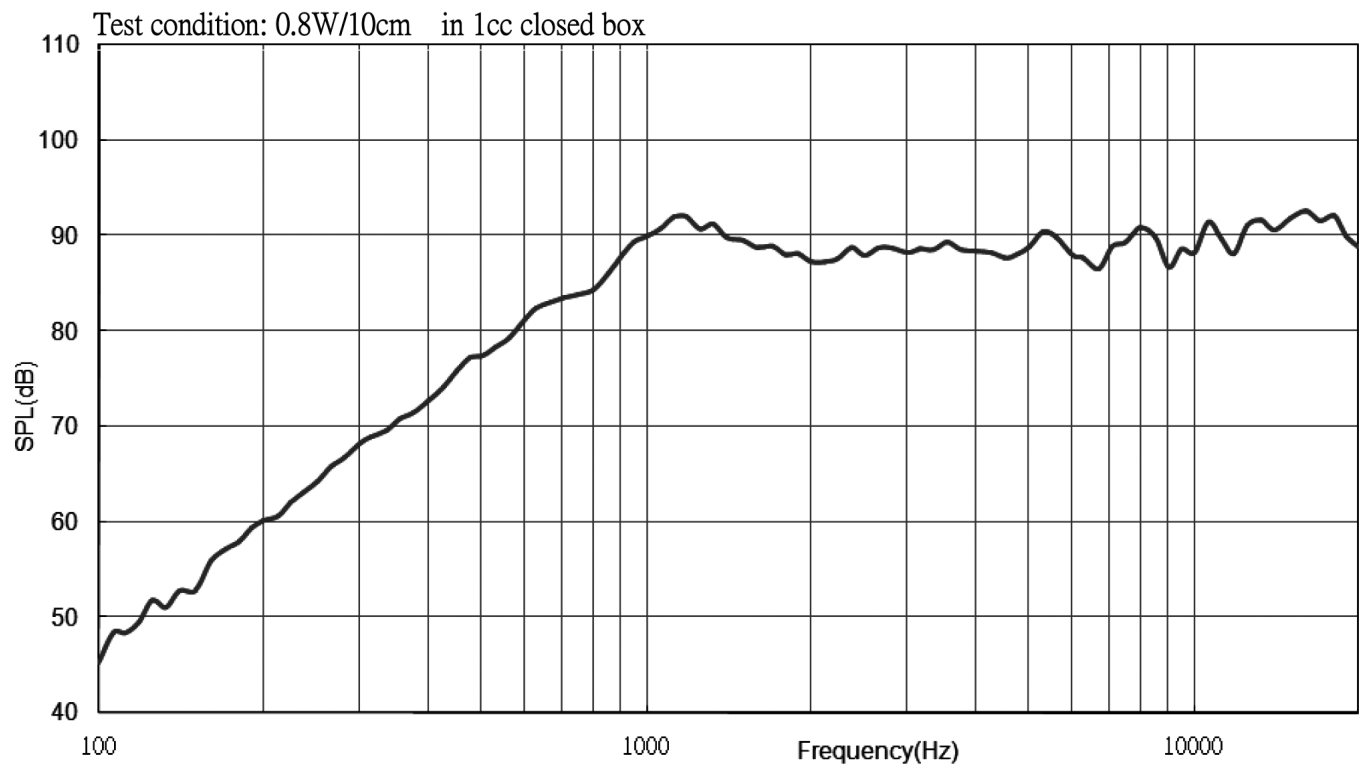
units: mm  
tolerance:  $\pm 0.2$  mm



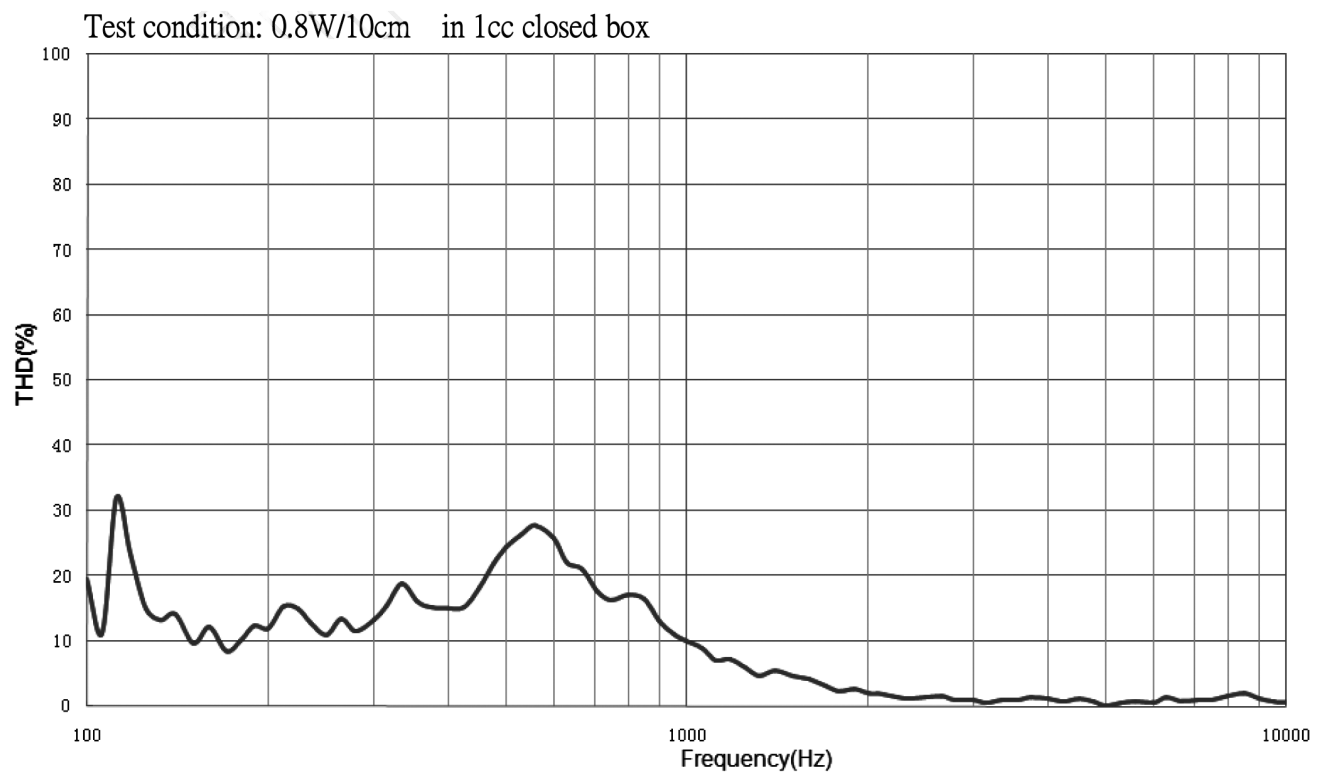
Note: 1. Maximum compression force between front frame and back frame & yoke is 5 N.

## RESPONSE CURVES

### Frequency Response Curve



### Total Harmonic Distortion Curve

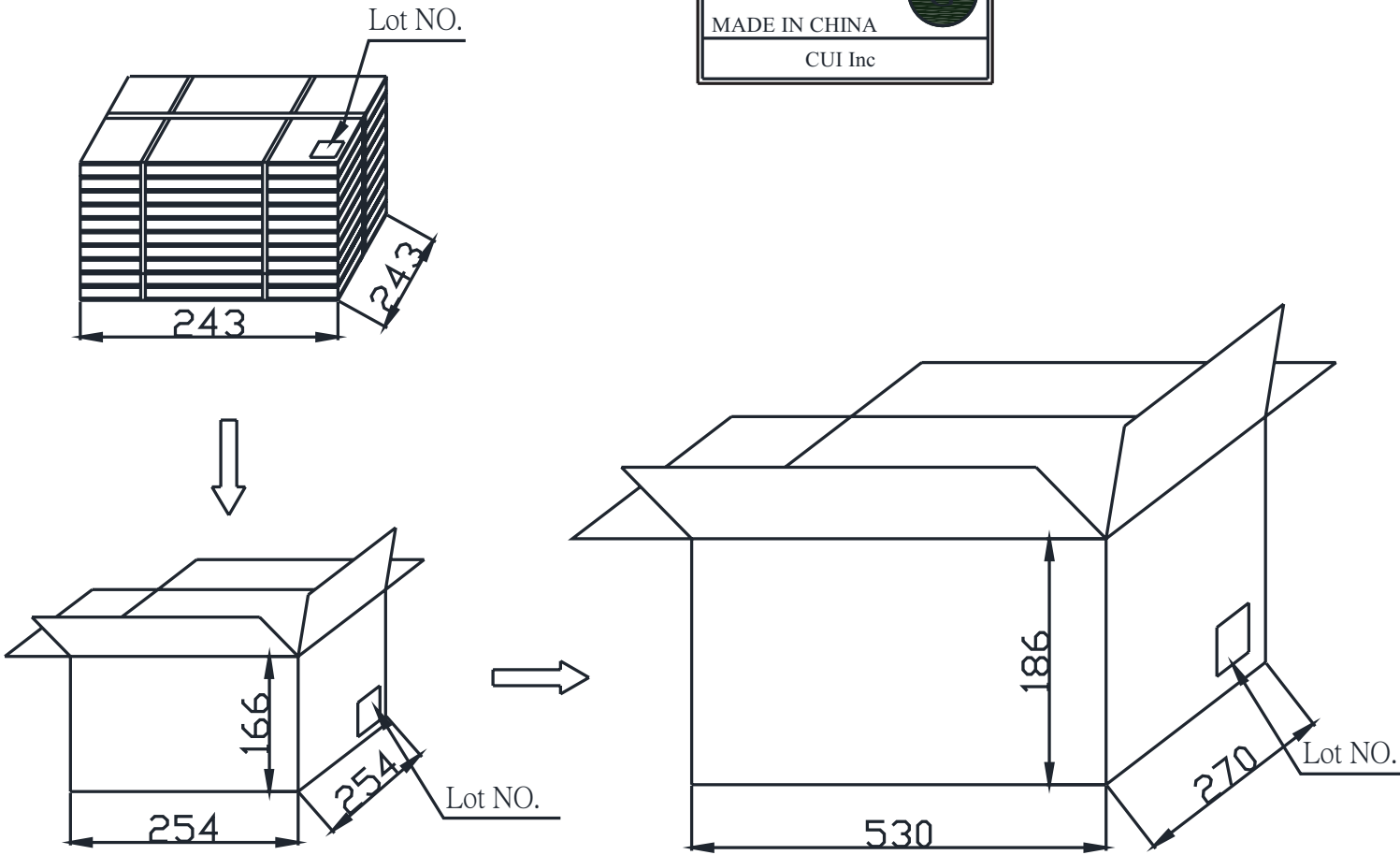


PACKAGING

units: mm

Tray Size: 243 x 243 x 10 mm  
Carton Size: 530 x 270 x 186 mm  
Tray QTY: 120 pcs per tray  
Carton QTY: 3,600 pcs per carton

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



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 07/06/2017 |

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



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

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CUI 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.