

**MODEL:** CMS-160916-30-SP | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- small footprint
- spring leads

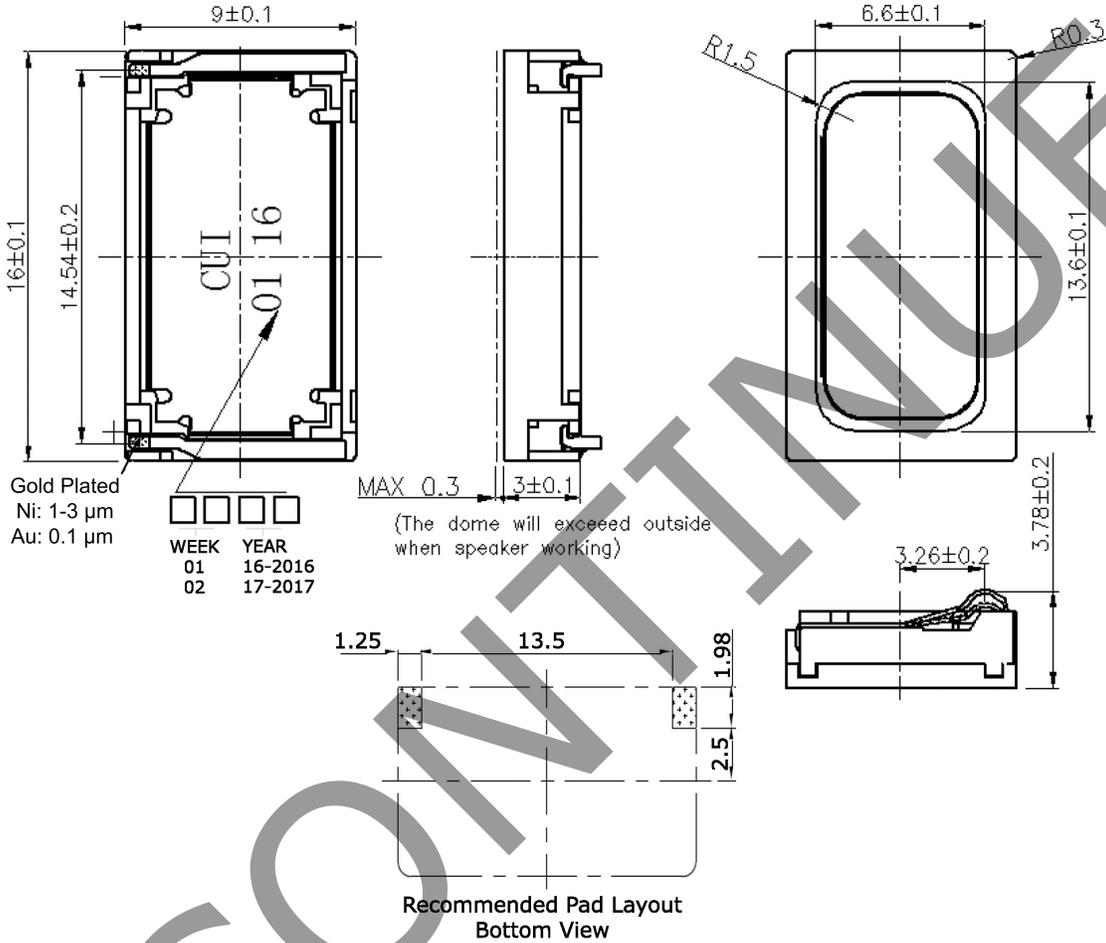
**SPECIFICATIONS**

| 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, 1.0 V   | 5.1        | 6.0        | 6.9        | $\Omega$     |
| resonant frequency (Fo) | at 1.0 V<br>at 1.0 V in 1 cc closed box   | 400<br>723 | 500<br>850 | 600<br>978 | Hz<br>Hz     |
| frequency response      | output SPL $\pm$ 10 dB  | Fo         |            | 20,000     | Hz           |
| sound pressure level    | at 0.8 W, 0.1 m ave, at 2.0 kHz in 1 cc closed box  | 89         | 92         | 95         | dB           |
| distortion              | at 1.0 kHz, 0.8 W   |            |            | 10         | %            |
| 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              | 16.0 x 9.0 x 3.0  |            |            |            | mm           |
| magnet                  | Nd-Fe-B   |            |            |            |              |
| material                | PPA   |            |            |            |              |
| cone material           | mylar   |            |            |            |              |
| terminal                | spring contact  |            |            |            |              |
| weight                  |   |            | 1.4        |            | g            |
| operating temperature   |   | -20        |            | 60         | $^{\circ}$ C |
| storage temperature     |   | -40        |            | 85         | $^{\circ}$ C |
| RoHS                    | 2011/65/EU  |            |            |            |              |

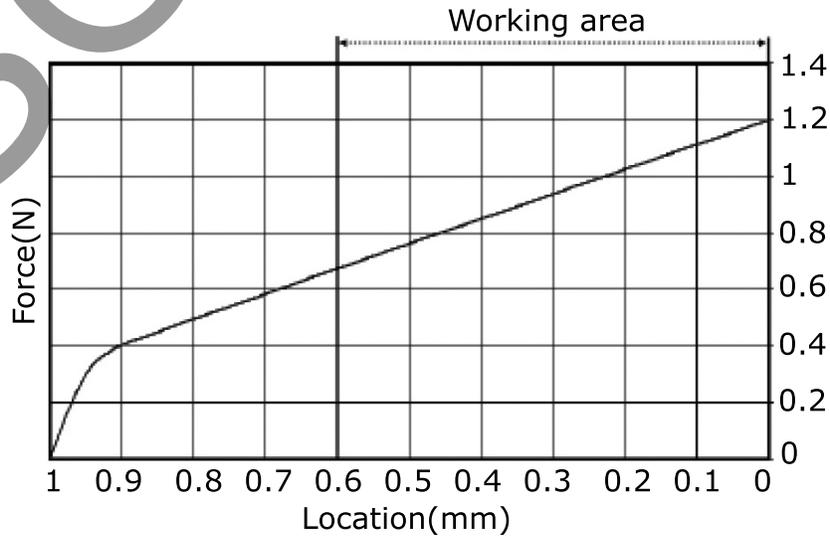
Notes: 1. All specifications measured at 5~35 $^{\circ}$ C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

### MECHANICAL DRAWING

units: mm  
tolerance: ±0.2 mm



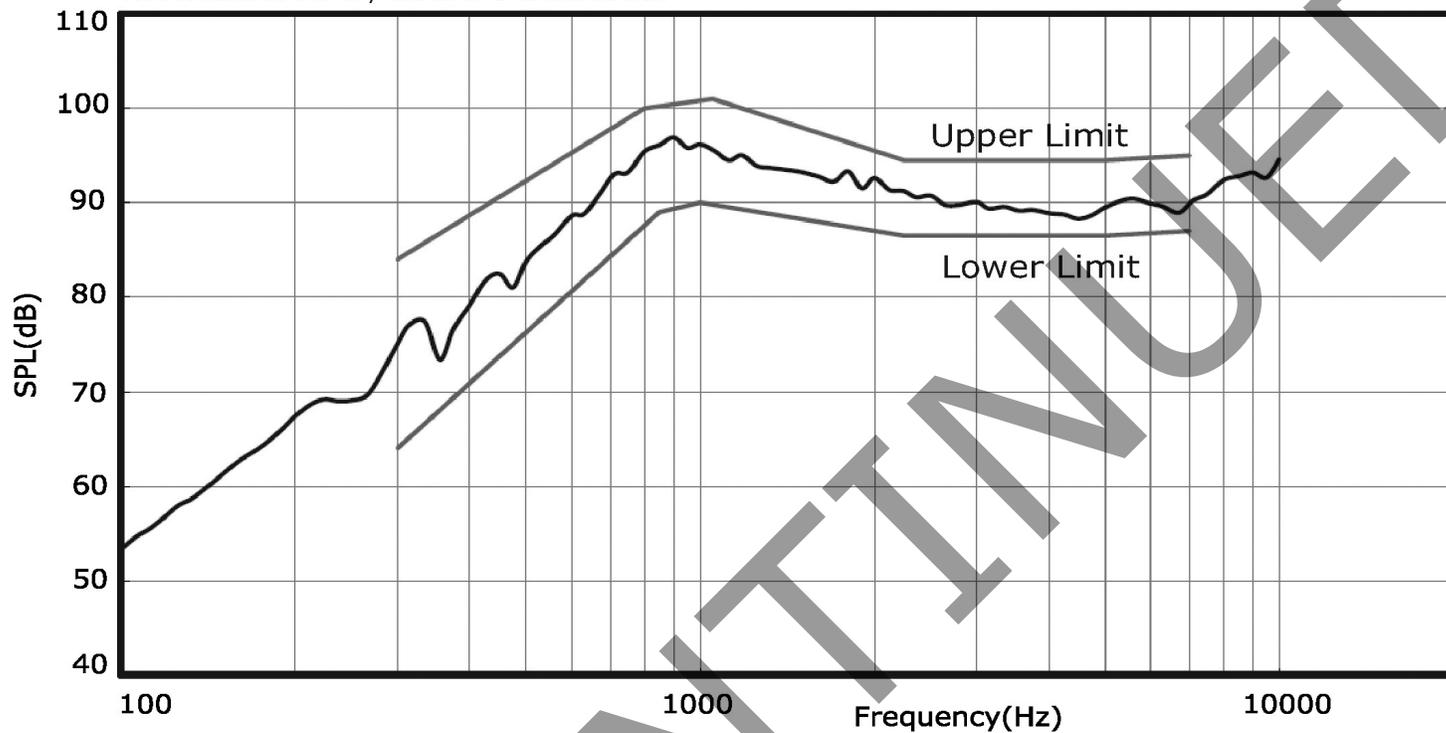
### Force Progression Of One Spring Contact



## RESPONSE CURVES

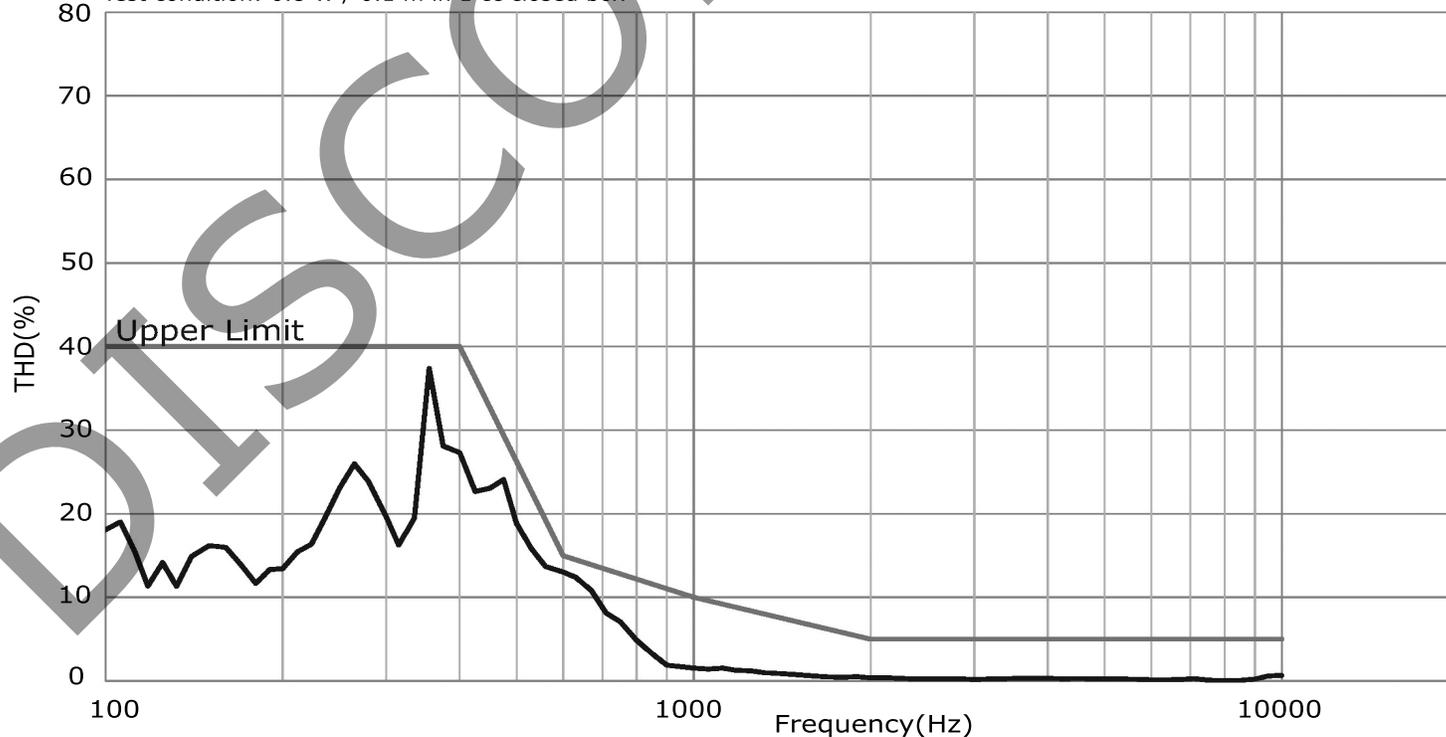
### Frequency Response Curve

Test condition: 0.8 W / 0.1 m in 1 cc closed box



### Total Harmonic Distortion Curve

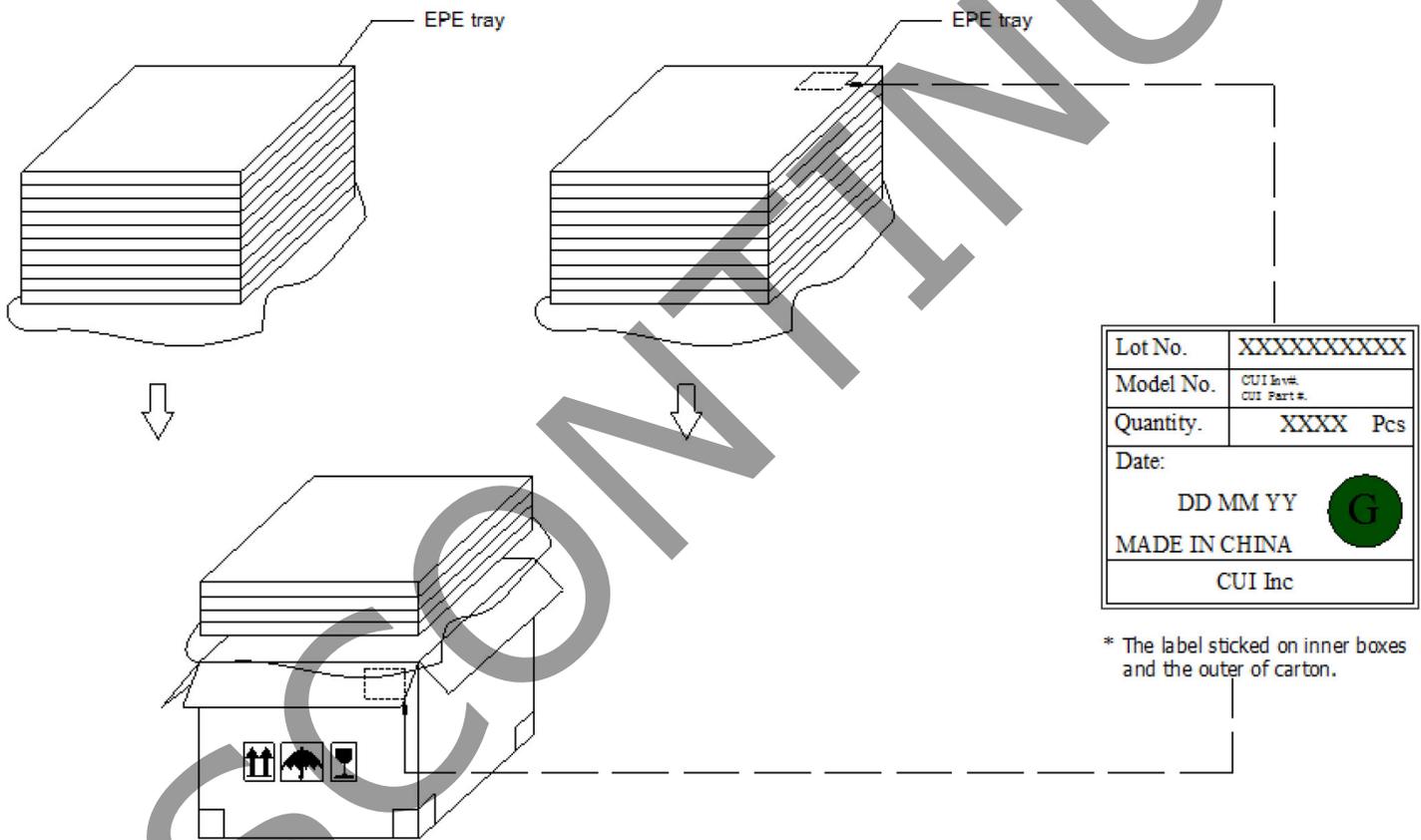
Test condition: 0.8 W / 0.1 m in 1 cc closed box



## PACKAGING

units: mm

Tray Size: 360 x 225 x 9 mm  
 Carton Size: 375 x 240 x 260 mm  
 Tray QTY: 100 pcs per tray  
 Carton QTY: 2,000 pcs per carton



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 10/12/2016 |

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



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