



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**MODEL:** CMS-160916-30-3 | **DESCRIPTION:** SPEAKER

**FEATURES**

- micro-speaker
- small footprint
- spring leads

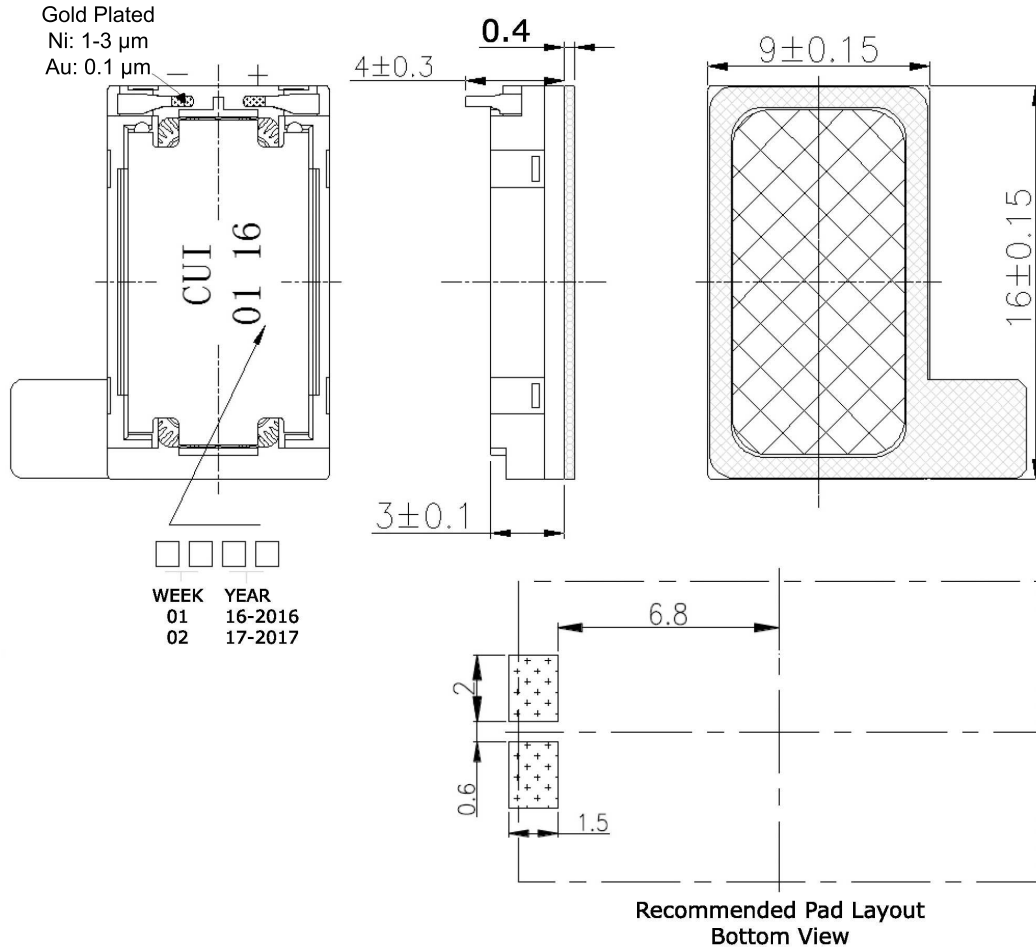

**SPECIFICATIONS**

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		0.7	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 at 1.0 V in 1 cc closed box	440 706	550 830	660 955	Hz Hz
frequency response	output SPL $\pm$ 10 dB	Fo		20,000	Hz
sound pressure level	at 0.7 W, 0.1 m ave, at 2.0 kHz in 1 cc closed box	86.5	89.5	92.5	dB
distortion	at 1.0 kHz, 0.7 W			10	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz in 1 cc closed box		2.05		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				

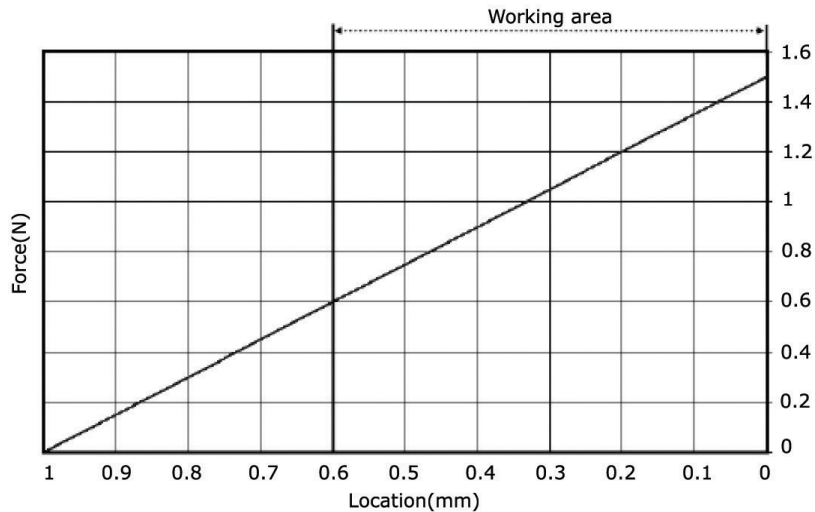
Notes: 1. All specifications measured at 5~35 $^{\circ}$ C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm

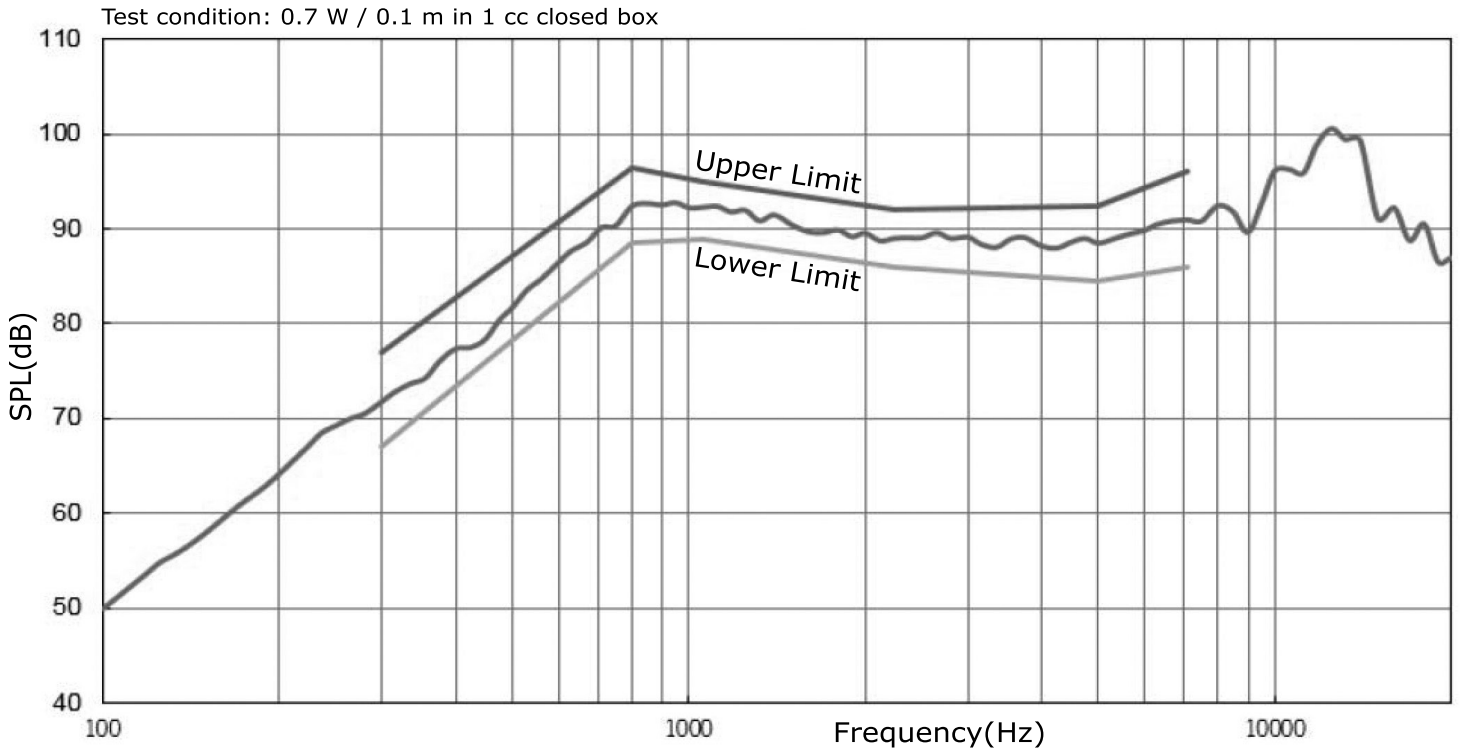


### Force Progression Of One Spring Contact



## RESPONSE CURVES

### Frequency Response Curve



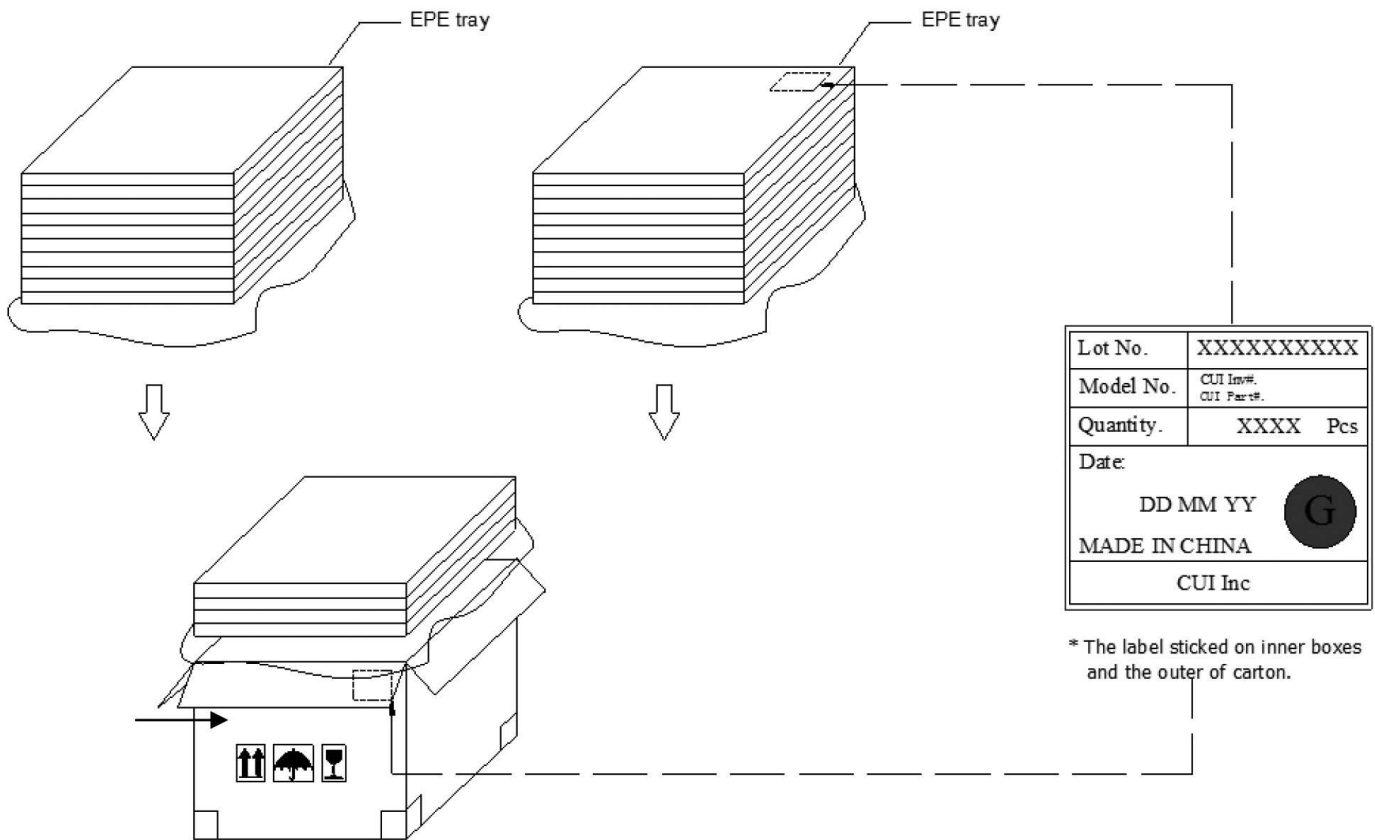
### Total Harmonic Distortion Curve



## 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

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rev.	description	date
1.0	initial release	10/13/2016

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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