CUI INC®

MODEL: CDS-18138A | **DESCRIPTION:** SPEAKER

FEATURES
- micro-speaker
- 8 ohm impedance
- spring leads

RoHS

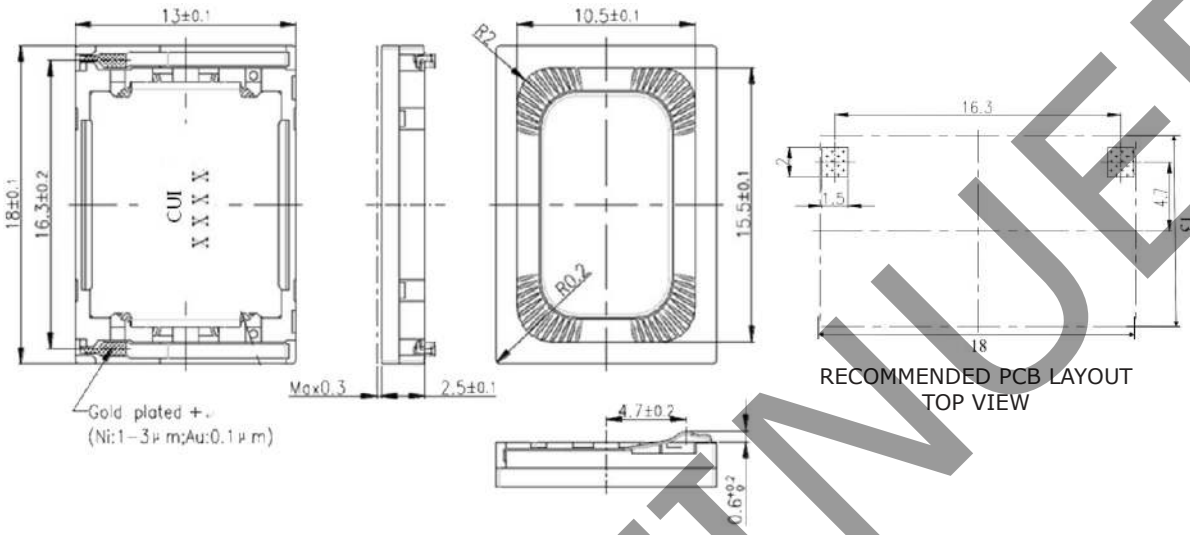
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp		0.7	1.0	W
impedance	at 1.5 kHz, 1.0 V	7.2	8	8.8	Ω
resonant frequency (Fo)	 in 1 cc closed box	300 702	375 780	450 858	Hz Hz
frequency response	average SPL -10 dB	Fo		20,000	Hz
sound pressure level	at 0.7 W, 0.1 m ave, at 2.0, 3.0, 4.0 kHz	86	89	92	dB
distortion	at 1.0 kHz, 0.7 W, in 1 cc closed box			10	%
buzz, rattle, etc.	must be normal at sine wave between 400 ~ 5 kHz, in 1 cc closed box		2.37		V
polarity	cone will move forward with positive dc current to "+" terminal				
dimensions	18.0 x 13.0 x 2.5				mm
magnet	Nd-Fe-B				
material	PPA				
cone material	mylar				
terminal	spring type				
weight			1.6		g
operating temperature		-20		70	°C
storage temperature		-40		85	°C
RoHS	2011/65/EU				

Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

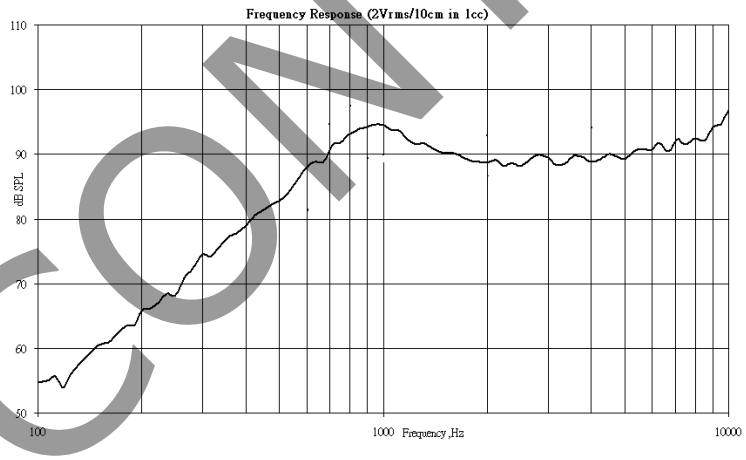
units: mm
tolerance: ±0.2 mm



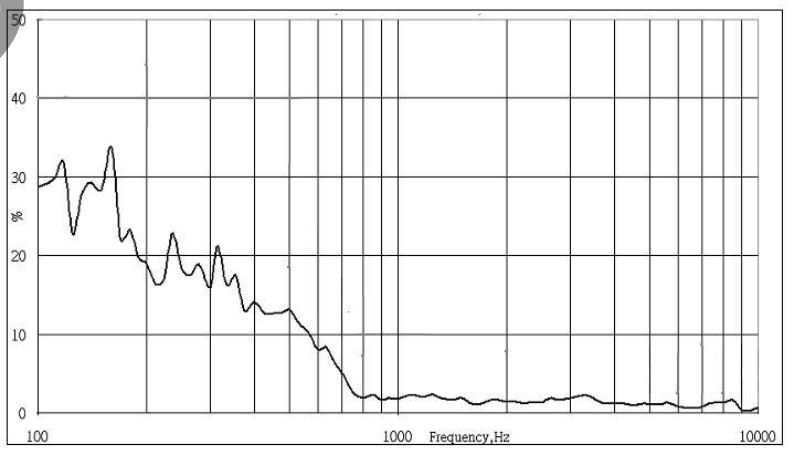
Notes: 1. Working height of the spring contacts is <0.4 mm.
2. The cone extends beyond the housing by a maximum of 0.3 mm during operation.

RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



REVISION HISTORY

rev.	description	date
1.0	initial release	03/25/2015

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

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