

Excellent Integrated System Limited

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[CUI Inc.](#)
[CDS-18138A](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



MODEL: CDS-18138A | DESCRIPTION: SPEAKER

FEATURES

- micro-speaker
- 8 ohm impedance
- spring leads



SPECIFICATIONS

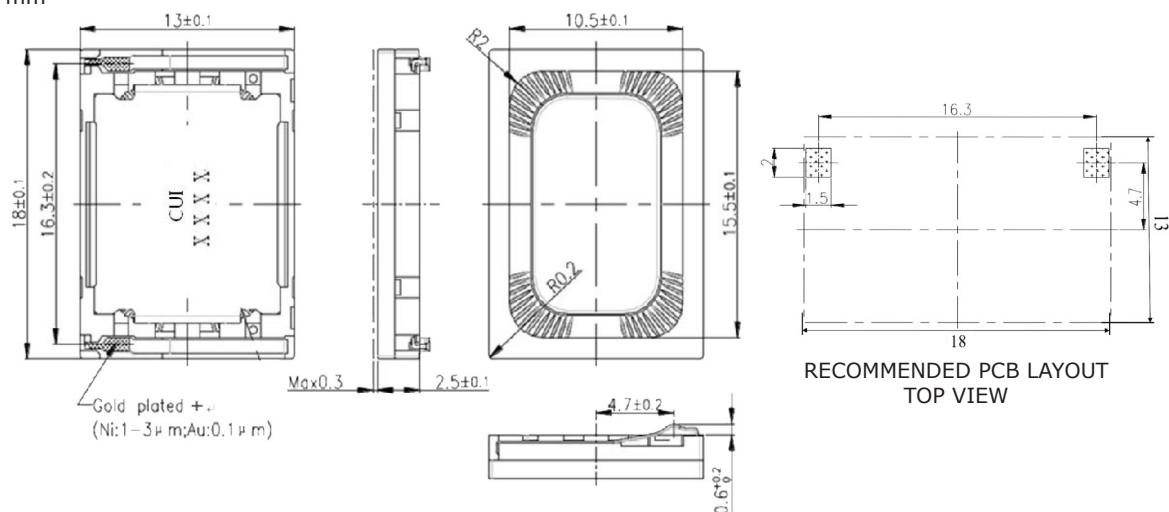
parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp		0.7	1.0	W
impedance	at 1.5 kHz, 1.0 V	7.2	8	8.8	Ω
resonant frequency (Fo)	in 1 cc closed box	300 702	375 780	450 858	Hz Hz
frequency response	average SPL -10 dB	Fo		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

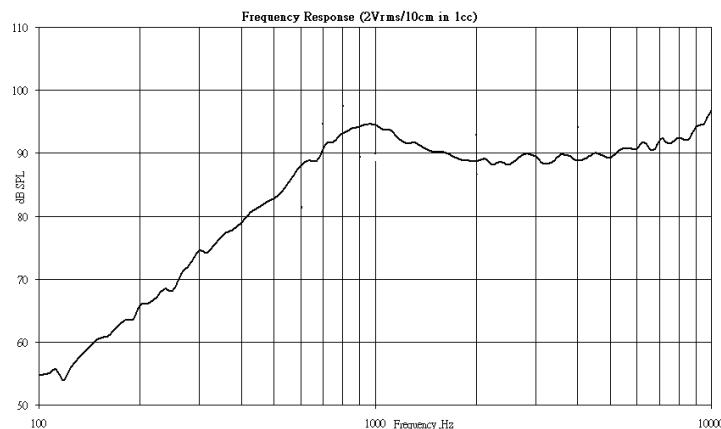


Notes:

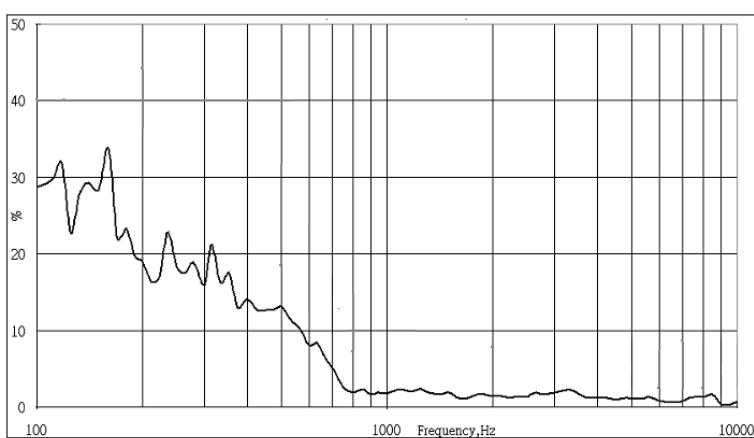
1. Working height of the spring contacts is <0.4 mm.
2. The cone extends beyond the housing by a maximum of 0.3 mm during operation.

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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.