

**MODEL:** CDS-20144 | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- high SPL
- wide operating temp range
- 4 ohm impedance

**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		1.0	1.2	W
impedance	at 2.0 kHz, 1.0 V	3.4	4	4.6	$\Omega$
resonant frequency (Fo)	at 1.0 V	480	600	720	Hz
frequency response	output SPL -10 dB	Fo		20,000	Hz
sound pressure level	at 1.0 W, 0.1 m ave, at 0.8, 1.0, 1.2, 1.5 kHz	89	92	95	dB
distortion	at 1.0 kHz, 2 V			10	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		2.0		V
polarity	cone will move forward with positive dc current to "+" terminal				
dimensions	20 x 14 x 3.2				mm
magnet	Nd-Fe-B				
material	PBT				
cone material	PEN				
terminal	solder pads				
weight			1.3		g
operating temperature		-30		70	$^{\circ}\text{C}$
storage temperature		-40		85	$^{\circ}\text{C}$
RoHS	yes				

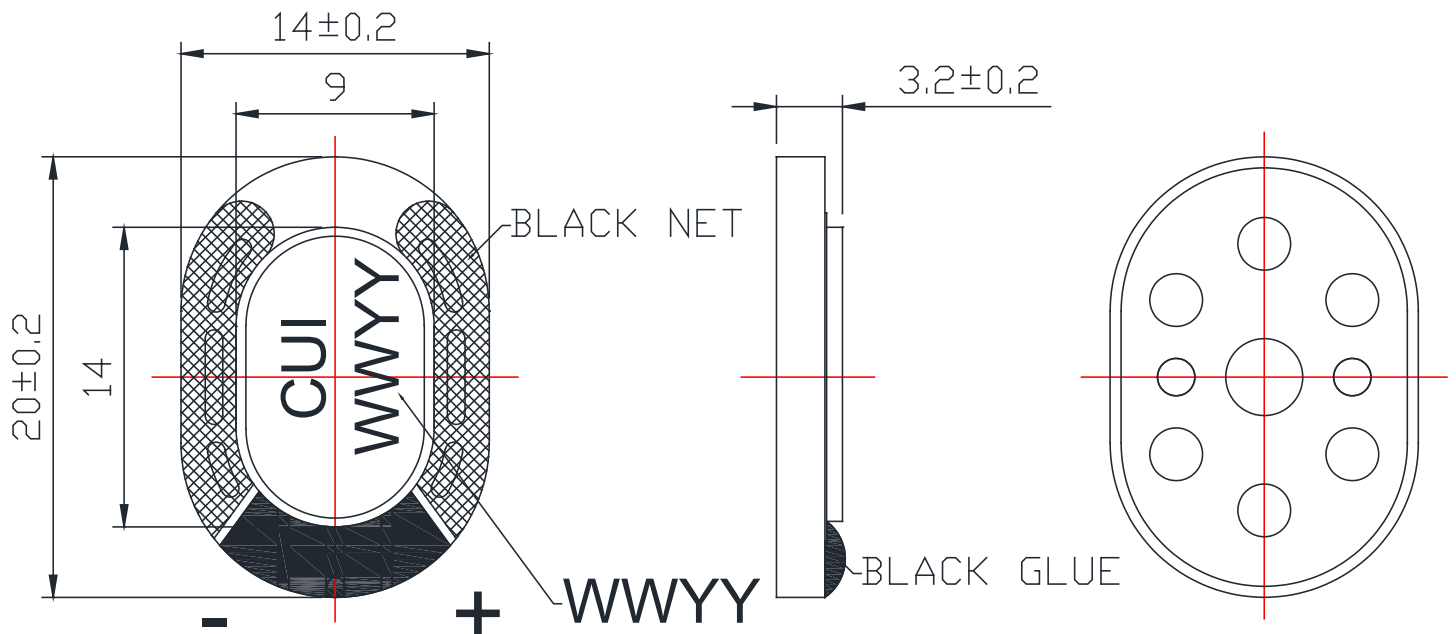
Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$ , humidity at 45-85%, under 86-106kPa pressure, unless otherwise noted.

**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
hand soldering	for 1-3 seconds	370	380	390	$^{\circ}\text{C}$

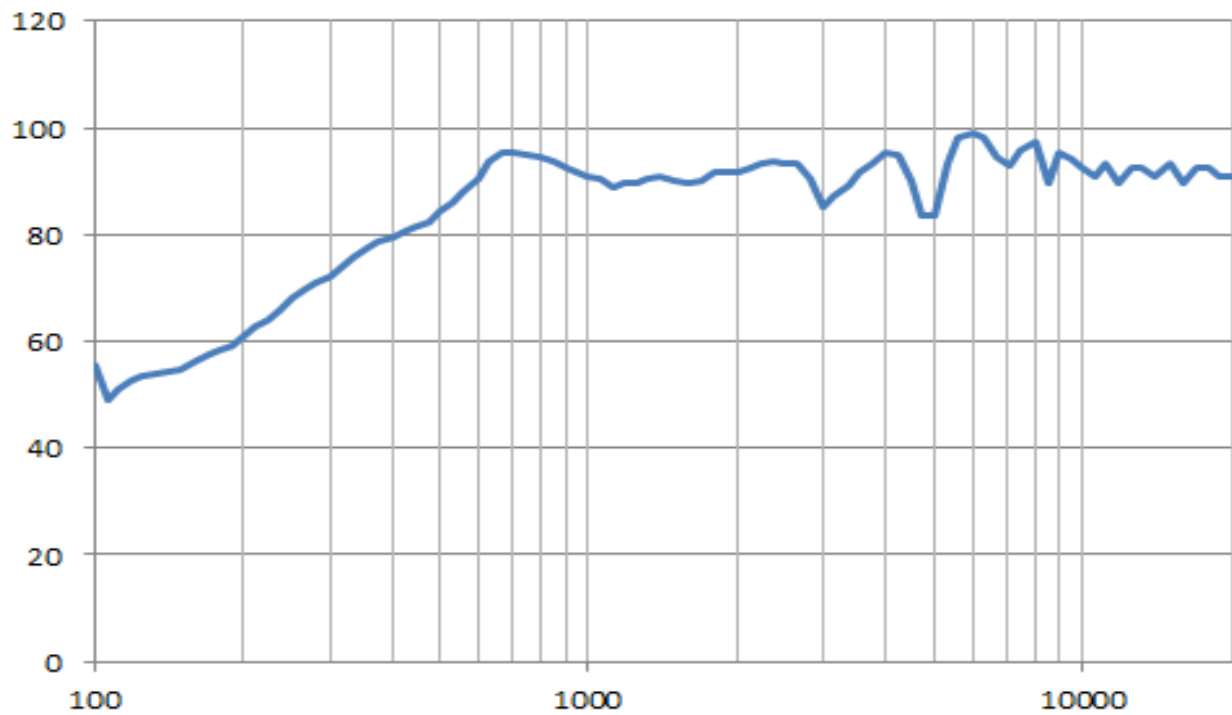
## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

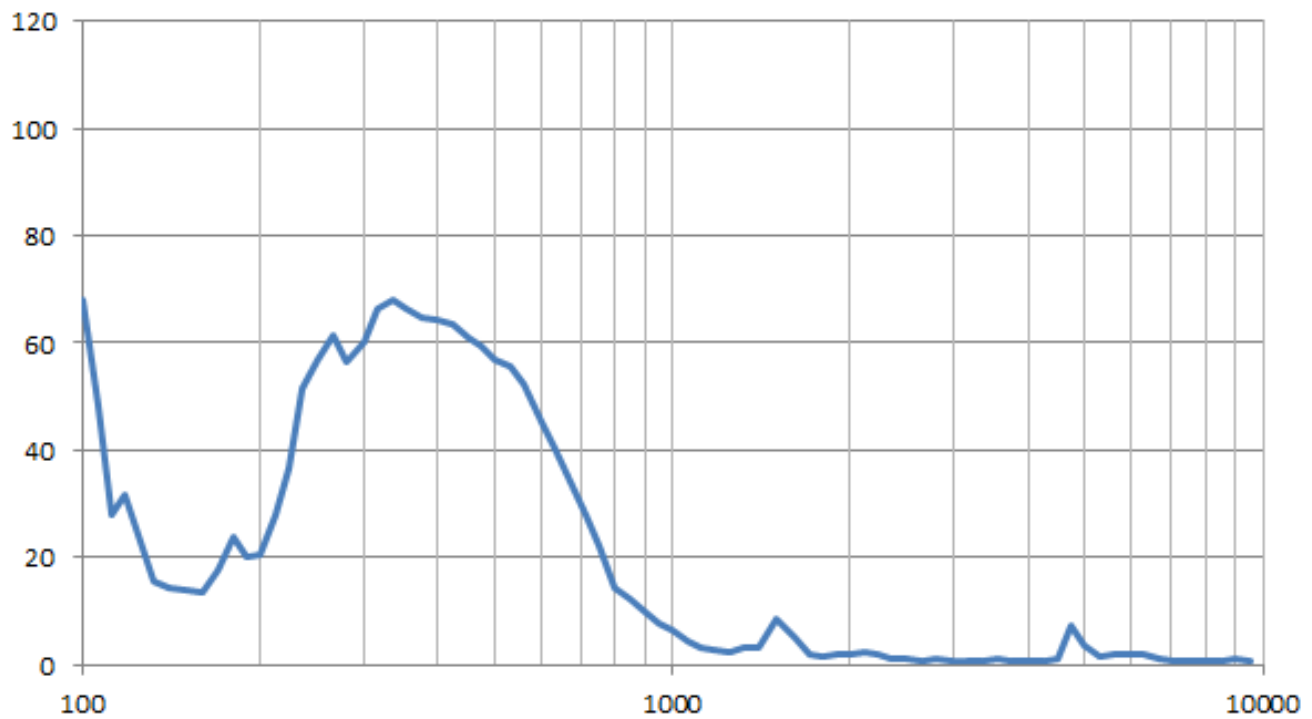


## RESPONSE CURVES

### Frequency Response Curve



### Total Harmonic Distortion Curve



## REVISION HISTORY

rev.	description	date
1.0	initial release	03/25/2015
1.01	brand update	01/21/2020
1.02	logo, datasheet style update	08/05/2022
1.03	modified design	01/29/2024

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



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

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