

date 08/05/2022

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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	Ω
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 3.5				mm
magnet	Nd-Fe-B				
material	PBT				
cone material	PEN				
terminal	solder pads				
weight			1.6		g
operating temperature		-30		70	°C
storage temperature		-40		85	°C
RoHS	yes				

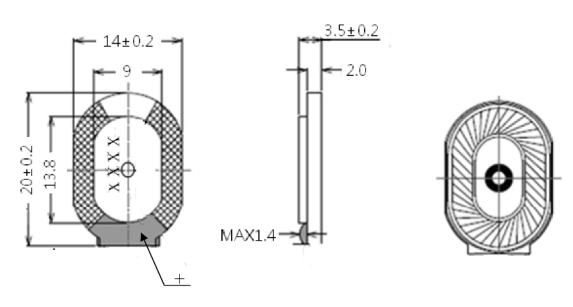
Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 3 seconds	370	380	390	°C

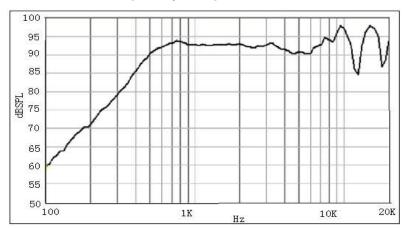
MECHANICAL DRAWING

units: mm tolerance: ±0.2 mm

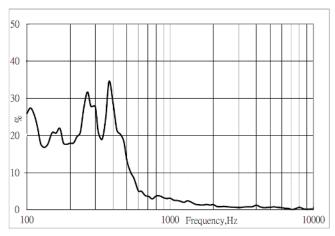


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



Additional Resources: Product Page | 3D Model

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

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



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