CUI DEVICES

date 01/22/2020

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SERIES: CDS-20144-L100 | DESCRIPTION: SPEAKER

FEATURES

- micro-speaker
- high SPL
- wide operating temp range
- 4 ohm impedance
- wire 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		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	mylar				
terminal	wire leads				
weight			1.8		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.

PART NUMBER KEY

CDS-20144-L100 X

Base Number

Termination Style:

"blank" = wire leads, no connector

1 = JST housing SHR-2V-S-B

2 = JST housing ZHR-2

3 = JST housing PHR-2

4 = JST housing HER-2 5* = JST housing PHR-4

6 = Molex housing 51021-0200

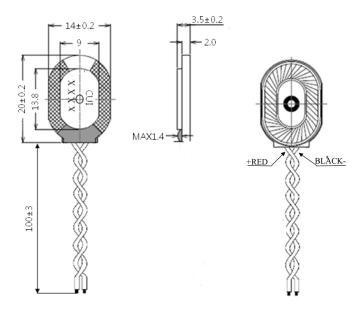
Notes: *Discontinued JST housing PHR-4 option.

MECHANICAL DRAWING

units: mm

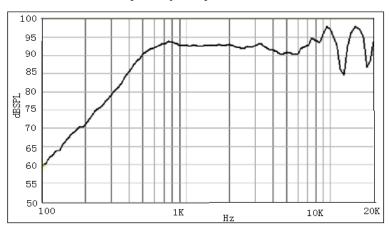
tolerance: ±0.2 mm

wire: UL1571 30 AWG

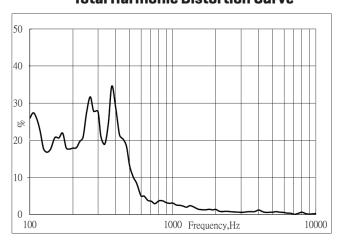


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



Additional Resources: Product Page | 3D Model

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REVISION HISTORY

rev.	description	date	
1.0	initial release	03/25/2015	
1.01	added connector options	07/15/2016	
1.02	discontinued JST housing PHR-4 option	07/01/2019	
1.03	brand update	01/22/2020	

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

CUI DEVICES

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

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