CUI Devices is now Same Sky! Learn More

MODEL: CDS-40304 | DESCRIPTION: SPEAKER

FEATURES

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

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		2.0	3.0	W
impedance	at 2.0 kHz, 1.0 V	3.4	4	4.6	Ω
resonant frequency (Fo)	at 1.0 V	320	400	480	Hz
frequency response	average SPL -10 dB	Fo		20,000	Hz
sound pressure level	at 2.0 W, 0.1 m ave, at 0.8, 1.0, 1.2, 1.5 kHz at 1.0 W, 1.0 m ave, at 0.8, 1.0, 1.2, 1.5 kHz	99 76	102 79	105 82	dB dB
distortion	at Fo ~ 6 kHz, 2 W			15	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		2.83		V
polarity	cone will move forward with positive dc current to "+" terminal				
dimensions	40 x 30 x 7.1				mm
magnet	Nd-Fe-B				
material	ABS777				
cone material	paper + cloth				
terminal	solder pads				
weight			7.5		g
operating temperature		-30		70	°C
storage temperature		-40		85	°C
RoHS	yes				

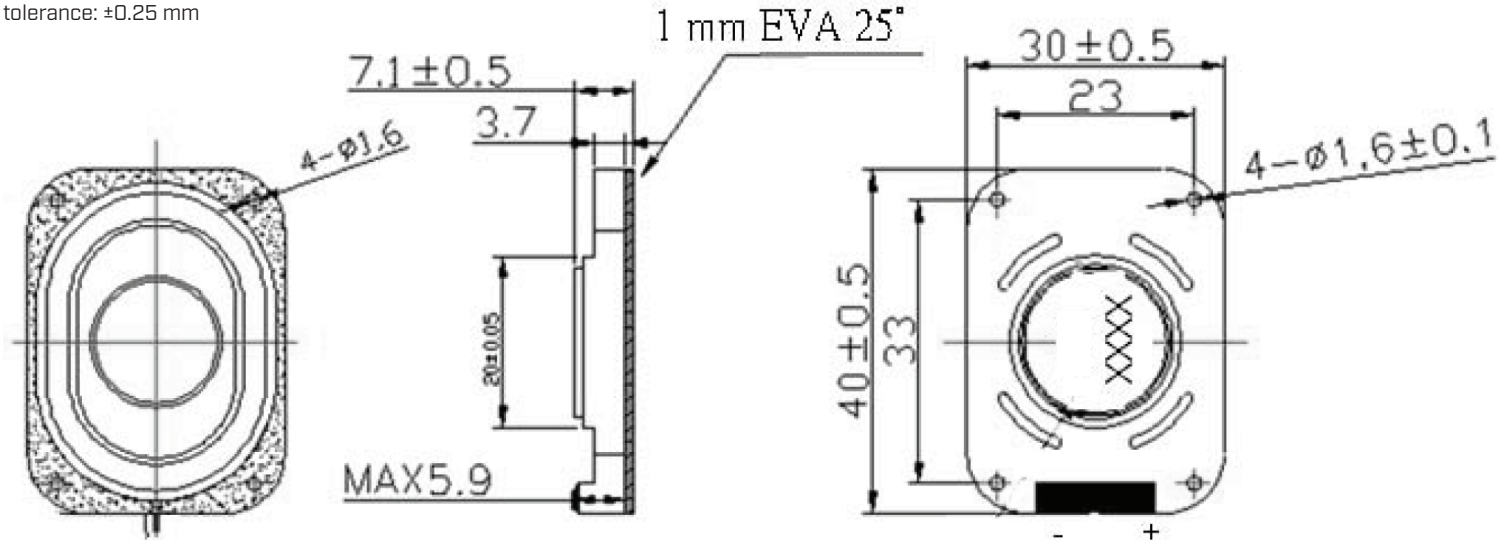
Notes: 1. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106kPa pressure, unless otherwise noted.

SOLDERABILITY

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

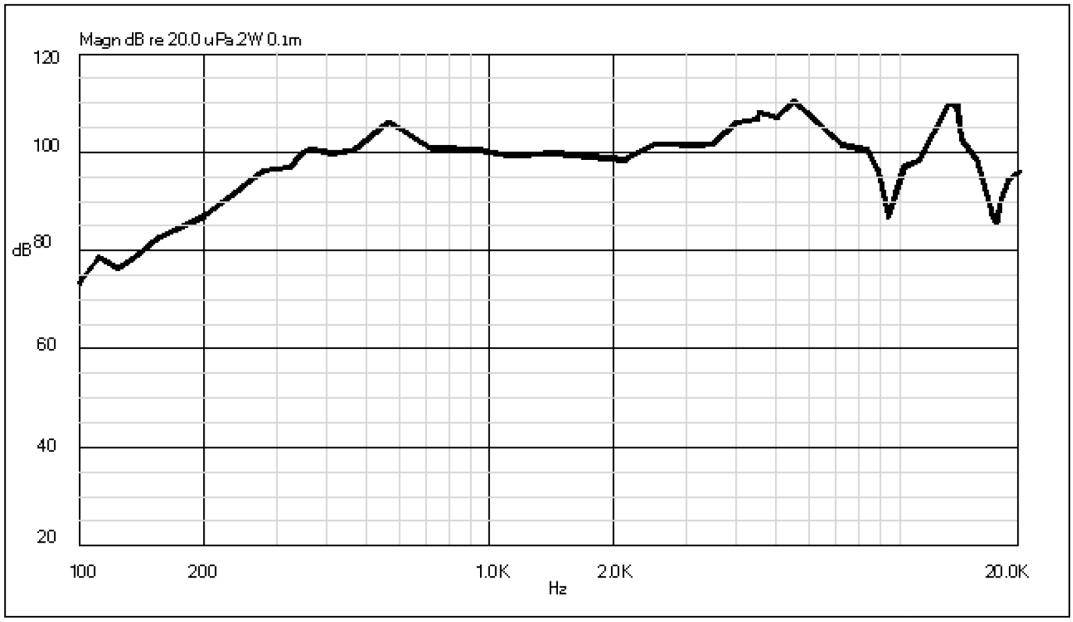
MECHANICAL DRAWING

units: mm
tolerance: ±0.25 mm

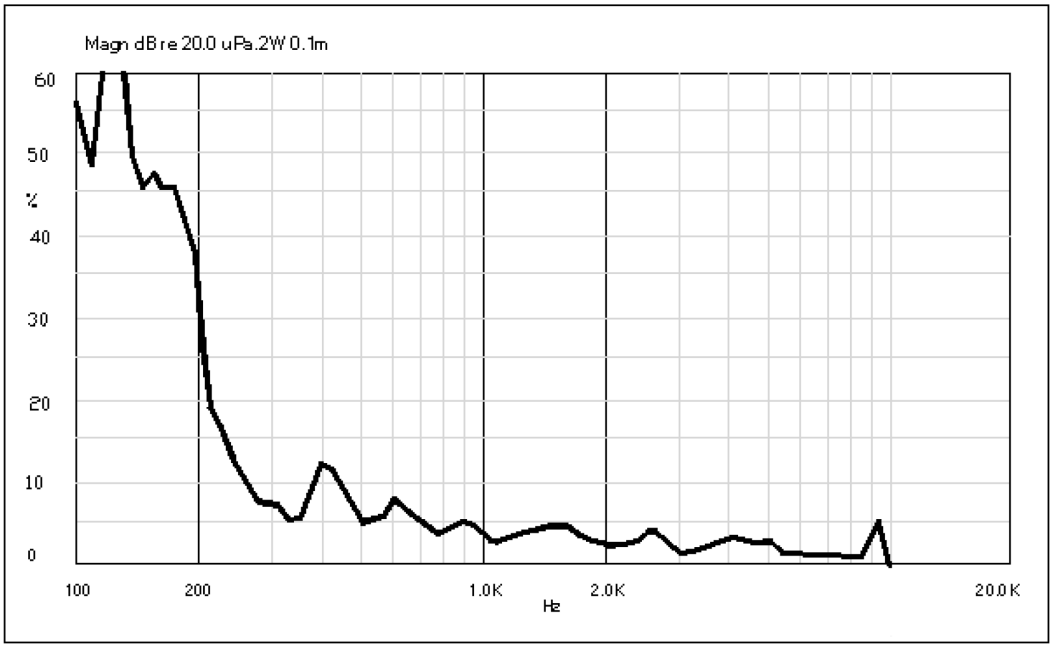


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	3.519
Electrical Q Factor	Qes	7.139
Total Q Factor	Qts	2.357
Compliance Equivalent Volume	Vas	0.0267

Notes: 2. Results represent typical performance in Free Air conditions.

REVISION HISTORY

rev.	description	date
1.0	initial release	03/25/2015
1.01	brand update	01/22/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024
1.04	added Thiele-Small Parameters	02/26/2025

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

same sky

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

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