

MODEL: CMS-201438-058S | **DESCRIPTION:** SPEAKER**FEATURES**

- spring leaf contact
- 8 Ω impedance
- rated 0.5 W

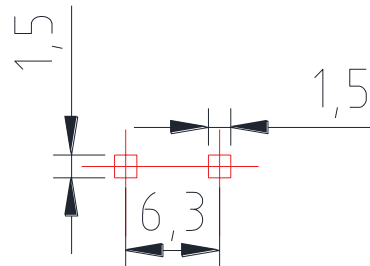
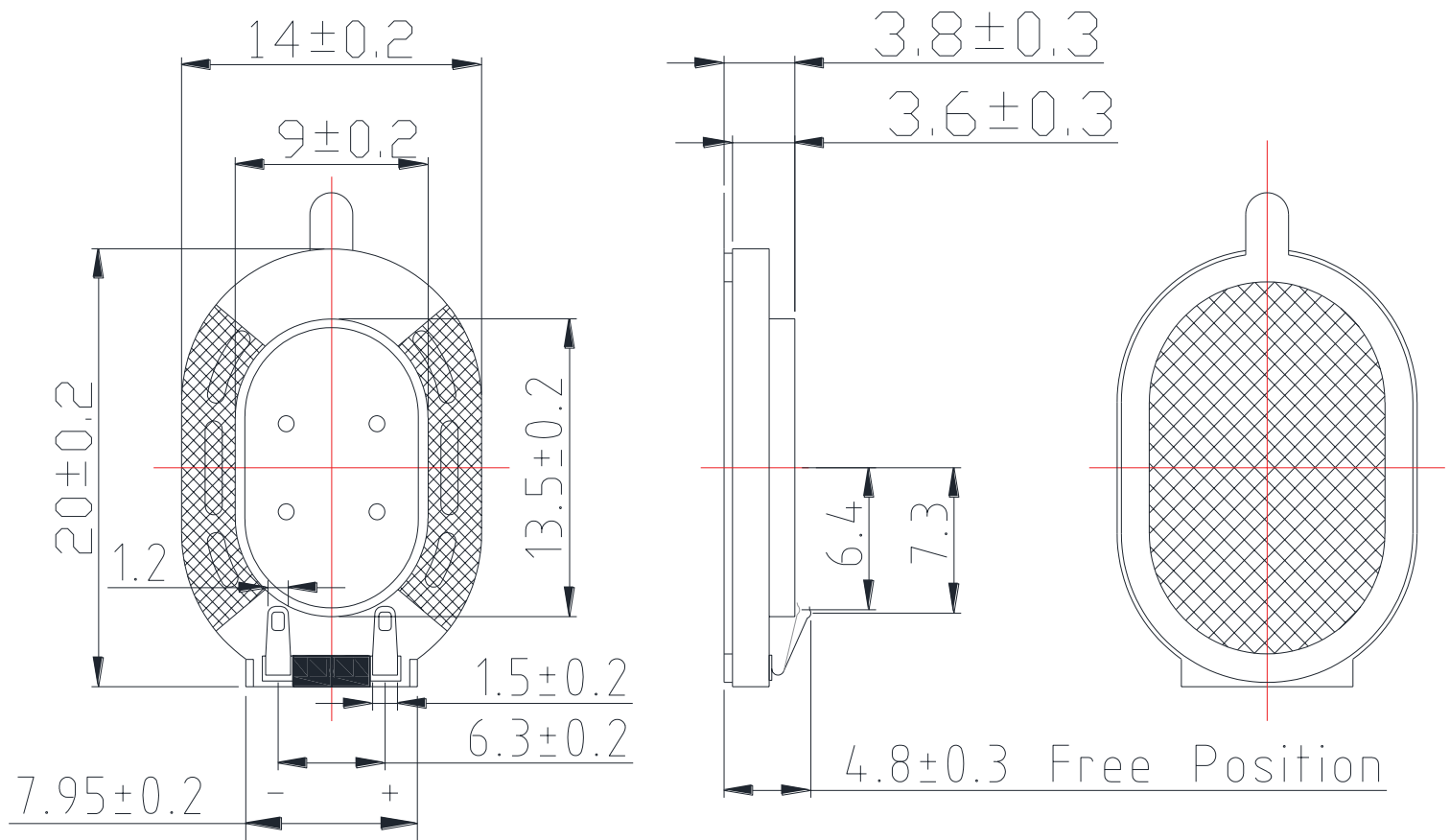
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	max power: IEC-60268-5, filter 60 seconds on/120 seconds off, 10 cycles at room temperature		0.5	1.0	W
impedance	at 2.0 kHz	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	640	800	960	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 0.5 W, 10 cm, avg at 2.0 kHz	90	93	96	dB
distortion	at 1.0 kHz, 0.1 W			10	%
buzz, rattle, etc.	must be normal at sine wave, between Fo~20 kHz			2.0	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	20.0 x 14.0 x 3.8				mm
magnet	Nd-Fe-B				
frame material	PBT				
cone material	PEN				
terminal	spring terminals				
weight			1.6		g
operating temperature		-30		70	$^{\circ}\text{C}$
storage temperature		-40		80	$^{\circ}\text{C}$
RoHS	yes				

Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ± 0.5 mm
unless otherwise specified

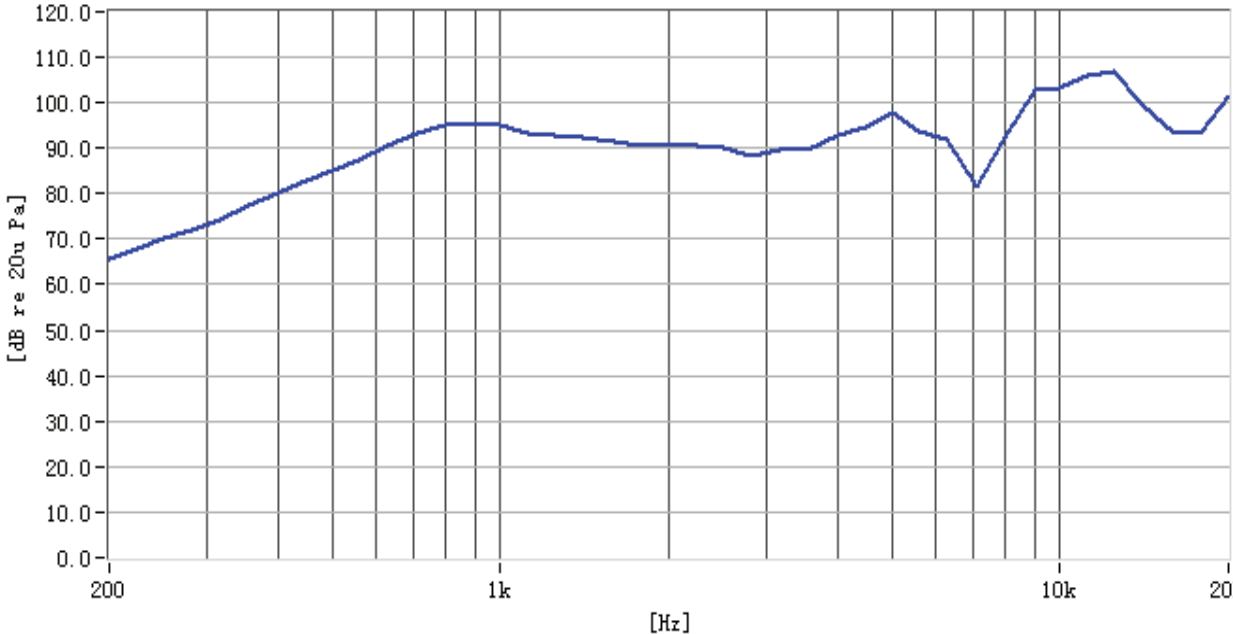


Recommended PCB Layout
Top View

RESPONSE CURVES

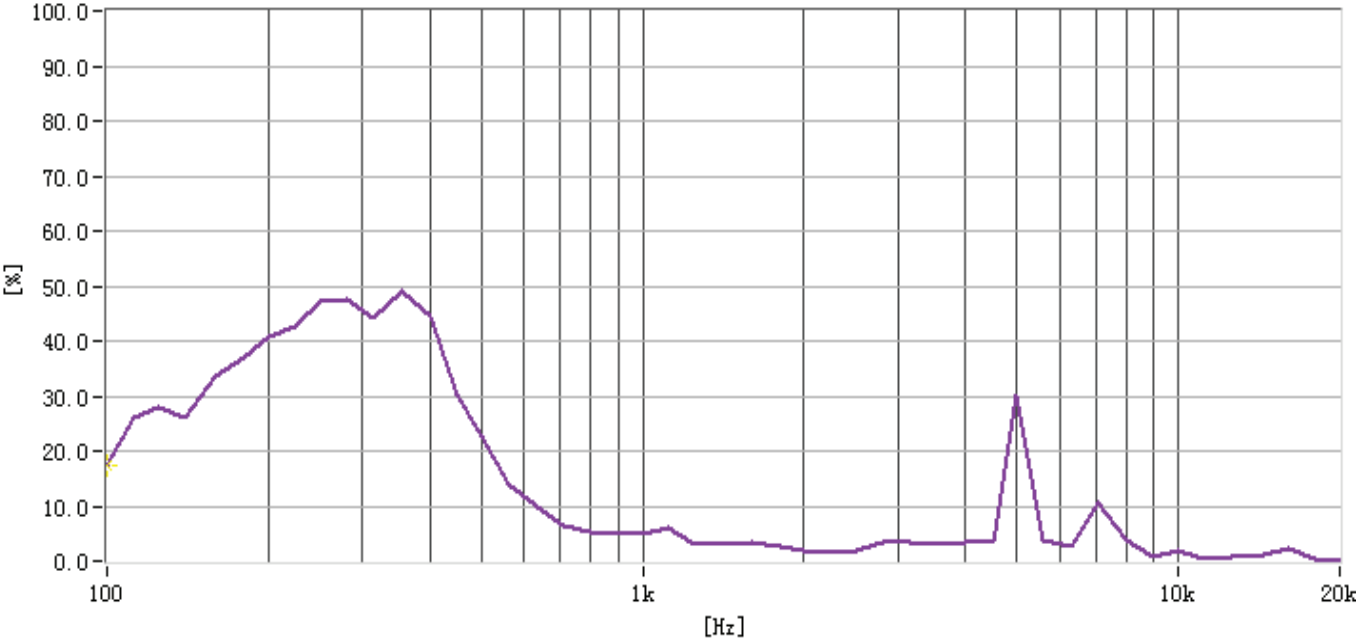
Frequency Response Curve

Test Conditions: 0.5 W / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 0.1 W / 10 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.231
Electrical Q Factor	Qes	9.647
Total Q Factor	Qts	1.812
Compliance Equivalent Volume	Vas	0.0025

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

REVISION HISTORY

rev.	description	date
1.0	initial release	04/05/2024
1.01	CUI Devices rebranded to Same Sky	09/11/2024
1.02	added Thiele-Small Parameters	02/26/2025
1.03	updated datasheet	07/18/2025

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



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

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