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MODEL: CES-402414-28-L200 | DESCRIPTION: SPEAKER

FEATURES

- high sound pressure level
- foam gasket for mounting
- wire leads
- IPX7

SPECIFICATIONS

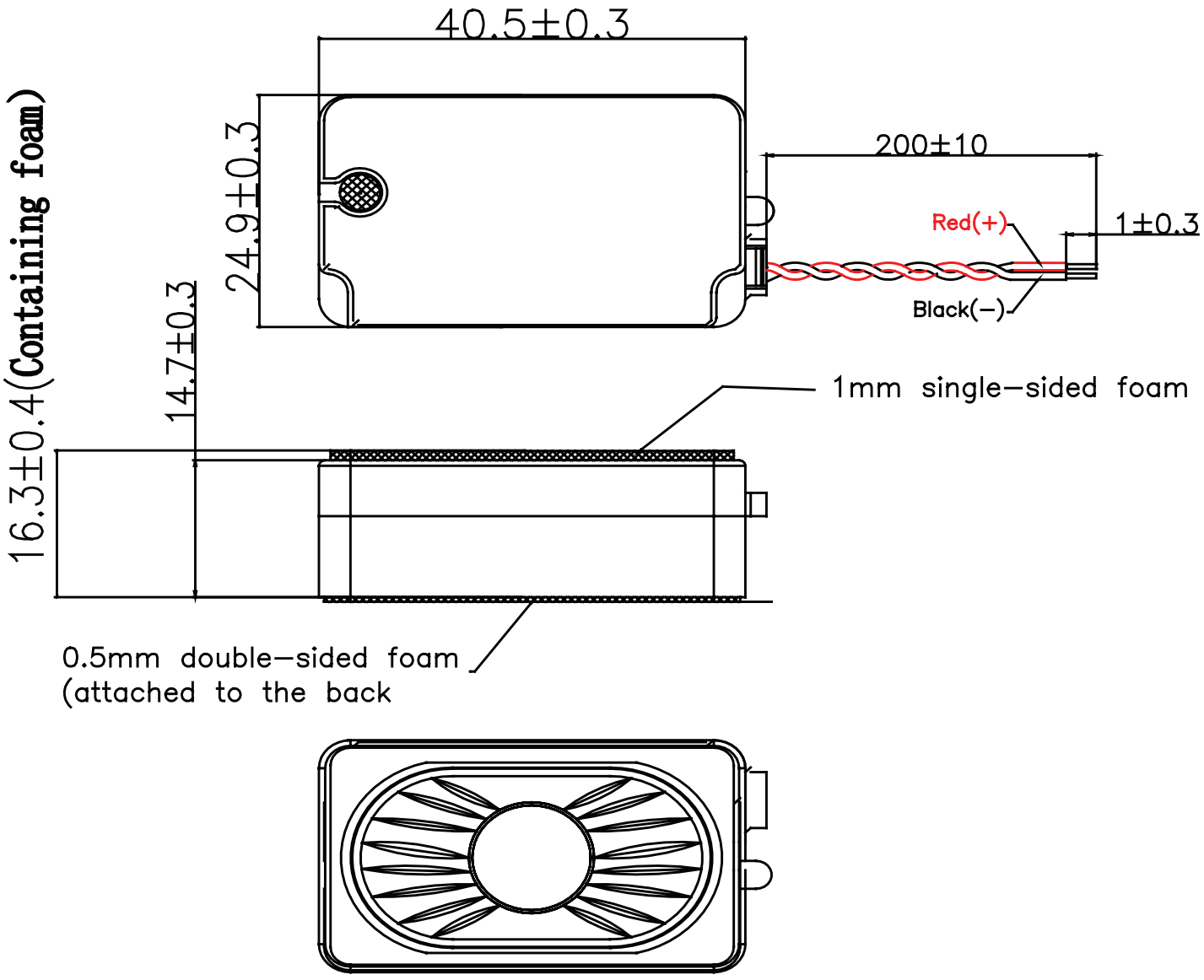
parameter	conditions/description	min	typ	max	units
input power	max power: 1 min. on, 2 min. off, 10 cycles in free air		2.0	2.5	W
impedance	at 2.0 kHz, 4.0 Vrms	6.8	8.0	9.2	Ω
coil resistance		6.48	7.20	7.92	Ω
resonant frequency (Fo)	at 4.0 Vrms, 10 cm	800	1,000	1,200	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 2.0 W, 10 cm, at 1.0, 1.2, 1.5, 2.0 kHz	102	105	108	dB
distortion	at 2.0 kHz, 2.0 W			10	%
buzz, rattle, etc.	must be normal between 300 Hz~5.0 kHz			4.0	V
polarity	cone moves forward w/ positive dc current to “+” terminal				
dimensions	40.5 x 24.9 x 16.3				mm
magnet	Nd-Fe-B				
enclosure material	ABS				
cone material	PEN				
terminal	wire leads				
weight			10		g
operating temperature		-30		70	°C
storage temperature		-40		85	°C
hand soldering	for 3~5 seconds	370	380	390	°C
RoHS	yes				
IP level	IPX7				

Notes: 1. All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ±0.4 mm

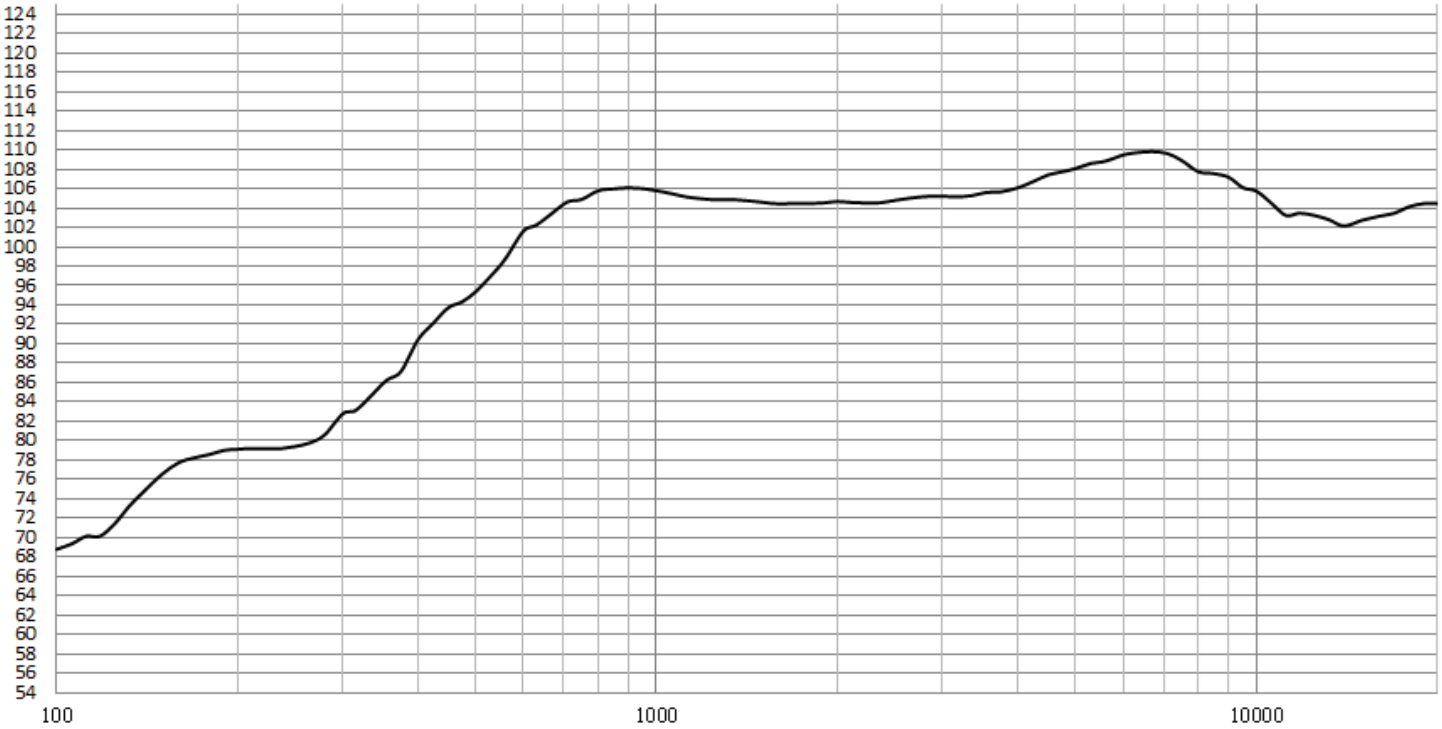
wire: UL1571 30 AWG
internal speaker: CMS-36205-28X Series



RESPONSE CURVES

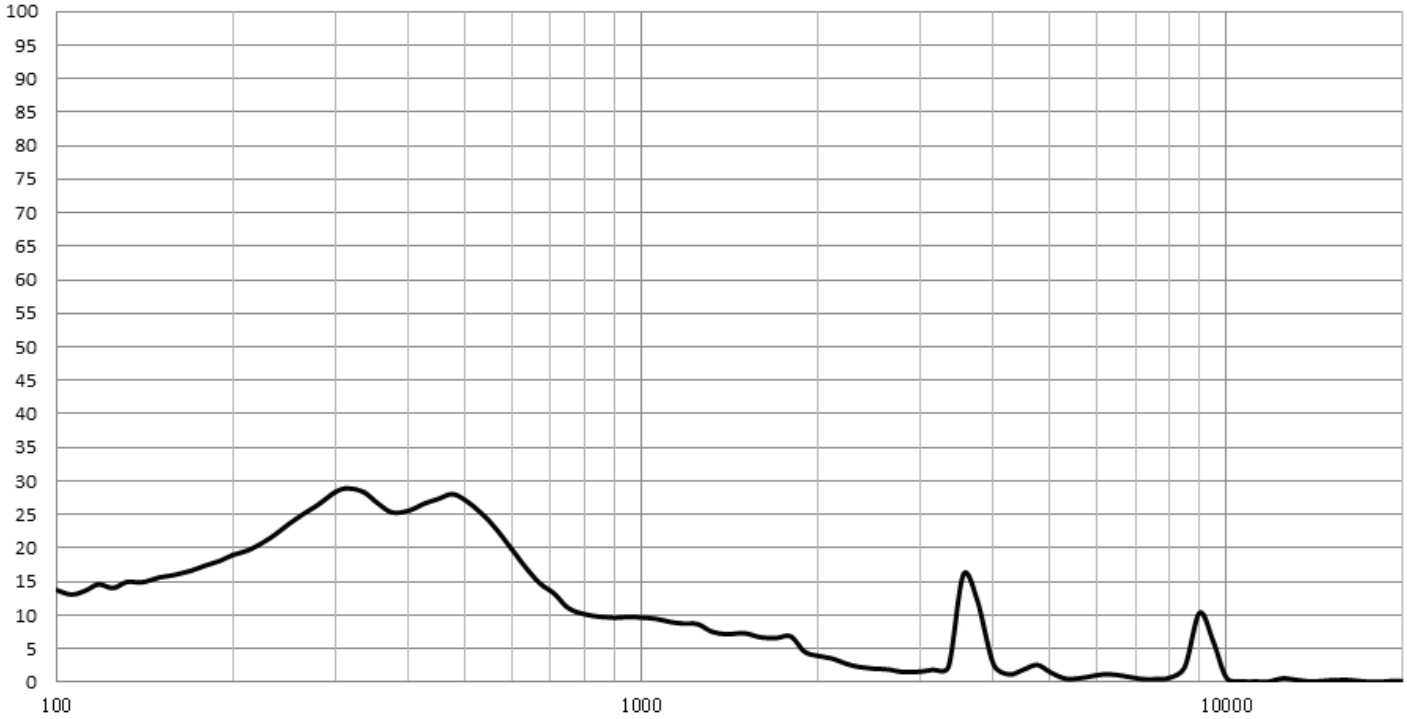
Frequency Response Curve

Test Conditions: 4.0 Vrms / 10 cm with baffle board



Total Harmonic Distortion Curve

Test Conditions: 4.0 Vrms / 10 cm with baffle board



REVISION HISTORY

rev.	description	date
1.0	initial release	12/02/2025
1.01	updated drawing	02/16/2026

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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