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Additional Resources: Product Page

SERIES: CMS-36205-28X | DESCRIPTION: SPEAKER

FEATURES

- high sound pressure level
- 8 ohm impedance
- multiple termination options



RoHS

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	560	700	840	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 2.0 W, 10 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz in free air	102	105	108	dB
distortion	at 2.0 kHz			10	%
buzz, rattle, etc.	must be normal at sine wave, between 0.2~2.0 kHz			4.0	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	36.2 x 20.5 x 5.4				mm
magnet	Nd-Fe-B				
frame material	ABS				
cone material	PEI				
weight	solder pads model wire leads model		4.2 4.5		g g
operating temperature		-20		60	°C
storage temperature		-30		70	°C
hand soldering	for 3~5 seconds	370	380	390	°C
RoHS	yes				

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

PART NUMBER KEY

CMS - 36205 - 28 **XX**

Base Number

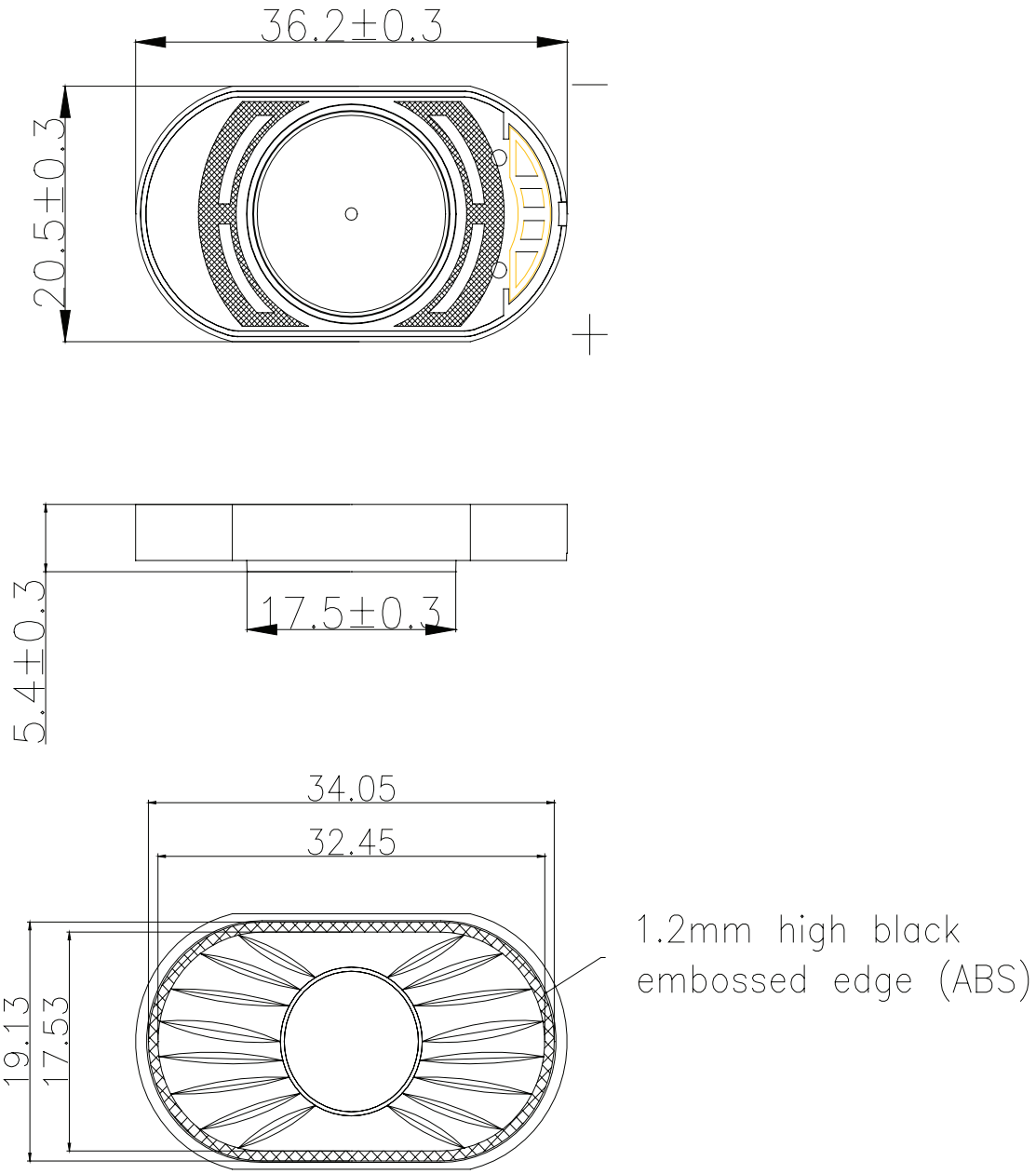
Termination Options:
SP = solder pads
L200 = wire leads

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MECHANICAL DRAWING (SOLDER PADS)

units: mm
tolerance: ±0.3 mm

used in enclosed speaker CES-402414-28-L200

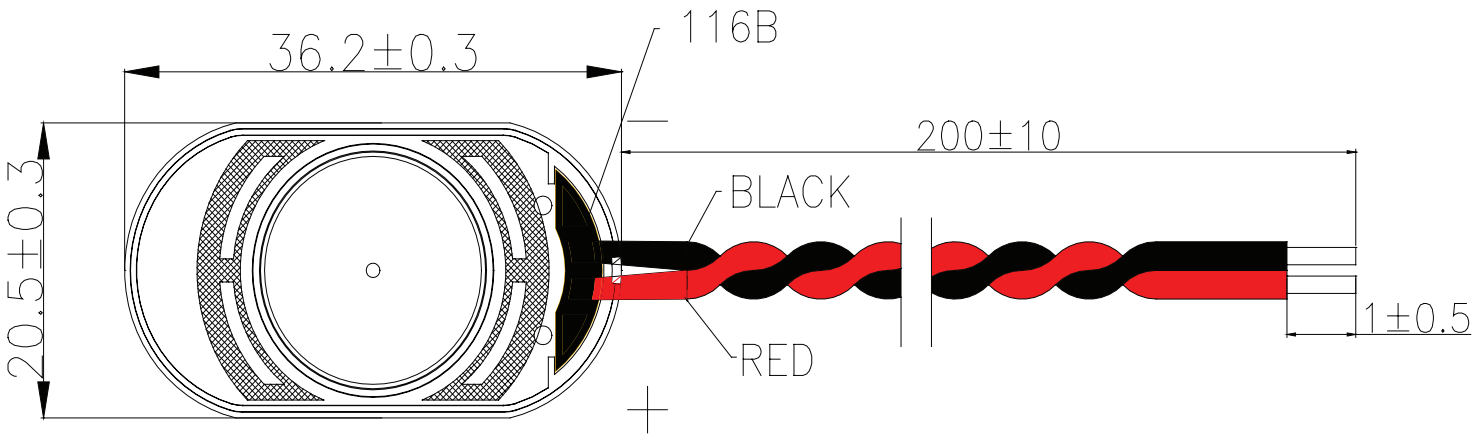


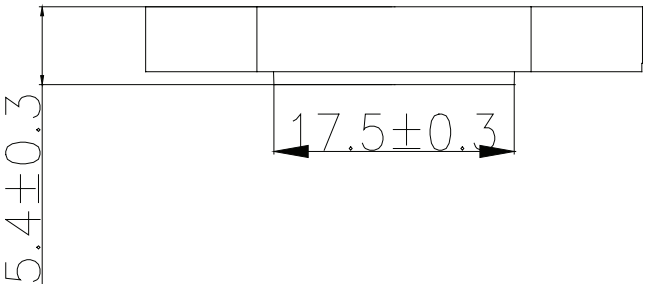
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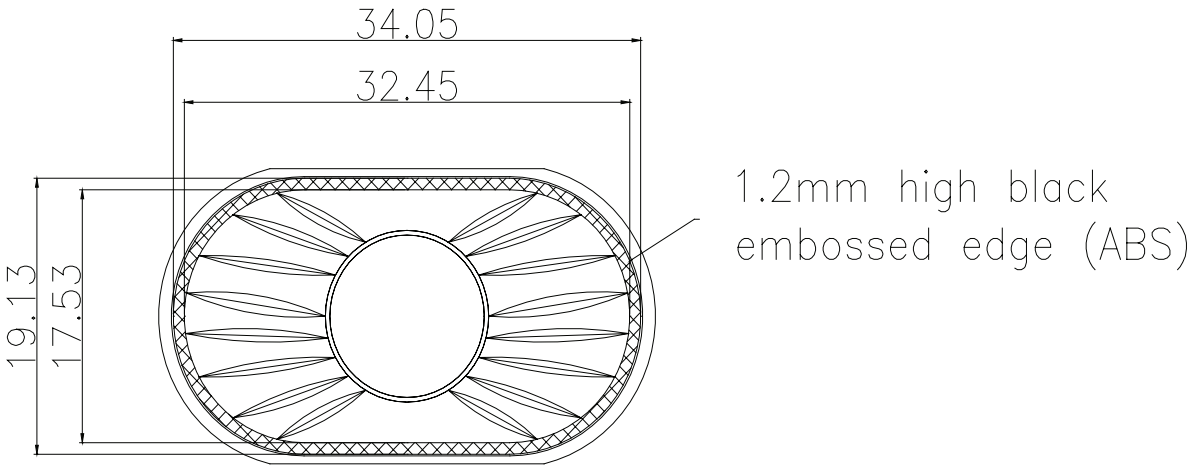
MECHANICAL DRAWING (WIRE LEADS)

units: mm
tolerance: ±0.3 mm

wire: UL1571 30 AWG
used in enclosed speaker CES-402414-28-L200





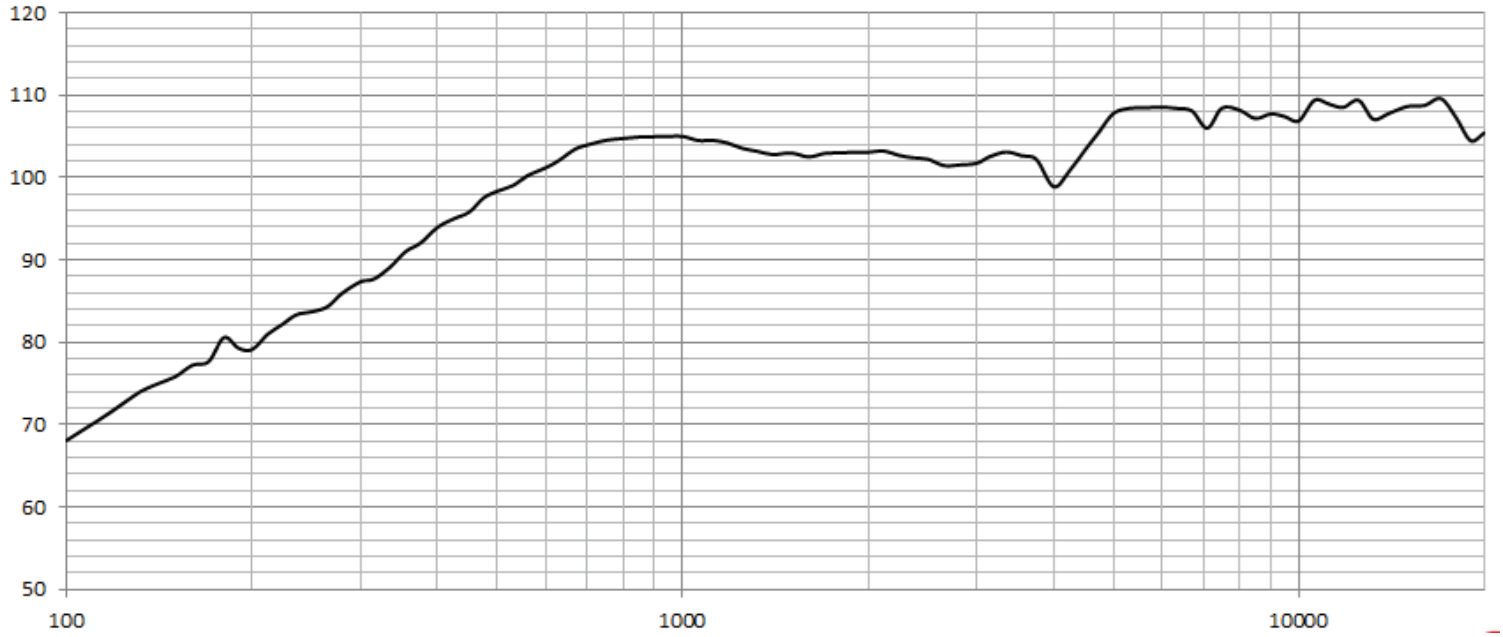


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RESPONSE CURVES

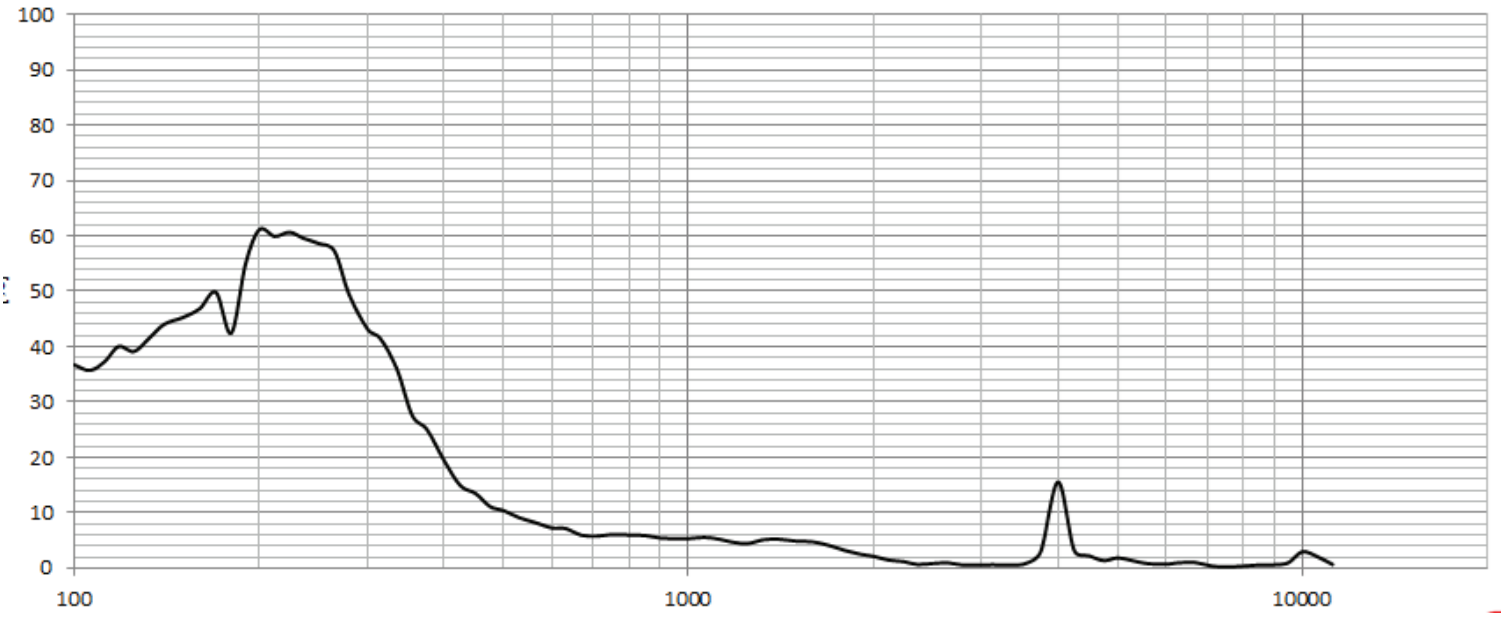
Frequency Response Curve

Test Conditions: 4.0 Vrms / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 4.0 Vrms / 10 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	3.992
Electrical Q Factor	Qes	3.208
Total Q Factor	Qts	1.779
Compliance Equivalent Volume	Vas	0.008

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

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REVISION HISTORY

rev.	description	date
1.0	initial release	12/02/2025

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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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