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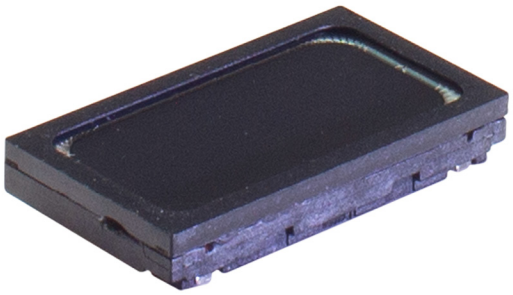
Additional Resources: Product Page

SERIES: CMS-25144-24X | DESCRIPTION: SPEAKER

FEATURES

- high sound pressure level
- 4 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 2.2 cc box		2.0	2.2	W
impedance	at 2.0 kHz, 2.83 Vrms	3.2	4.0	4.8	Ω
resonant frequency (Fo)	at 2.0 W, 10 cm, in 2.2 cc box	680	850	1,020	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 2.0 W, 10 cm, avg at 1.0, 1.18, 1.5 kHz in 2.2 cc box	100	103	106	dB
distortion	at 2.0 kHz, 2.0 W, 10 cm			10	%
buzz, rattle, etc.	must be normal at sine wave, between 0.2~2.0 kHz in 2.2 cc box			2.83	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	25 x 14 x 4				mm
magnet	Nd-Fe-B				
frame material	PBT				
cone material	PEEK				
weight	solder pads model wire leads model		4.5 4.8		g g
operating temperature		-20		70	°C
storage temperature		-40		85	°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 - 25144 - 24 **XX**

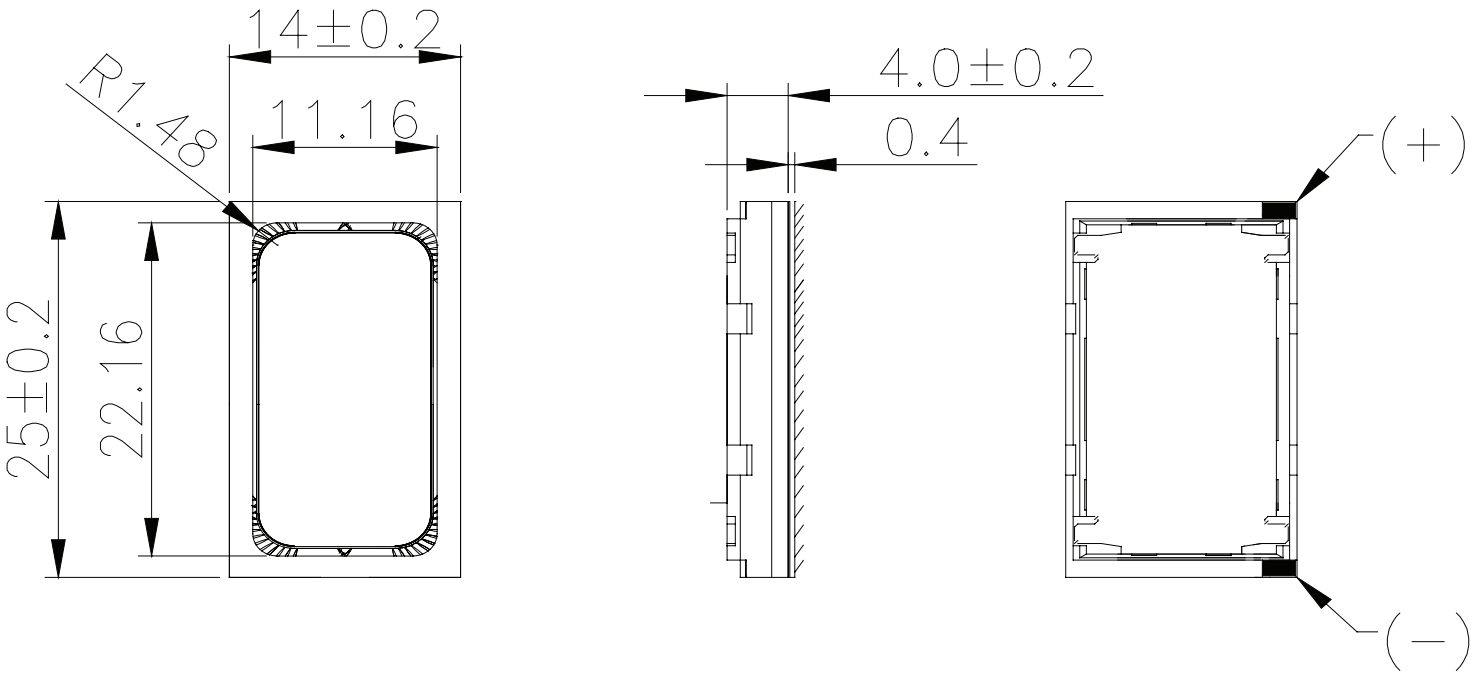
Base Number

Termination Options:
SP = solder pads
L200 = wire leads

MECHANICAL DRAWING (SOLDER PADS)

units: mm
tolerance: ±0.2 mm

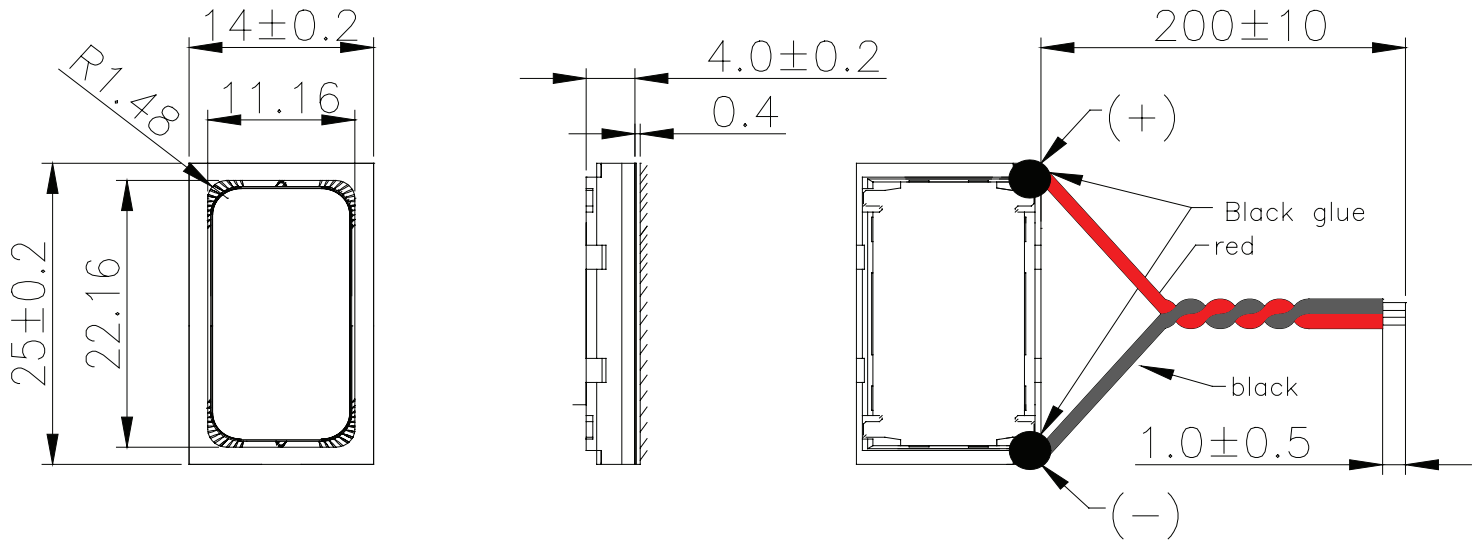
used in enclosed speaker CES-40198-24-L200



MECHANICAL DRAWING (WIRE LEADS)

units: mm
tolerance: ±0.2 mm

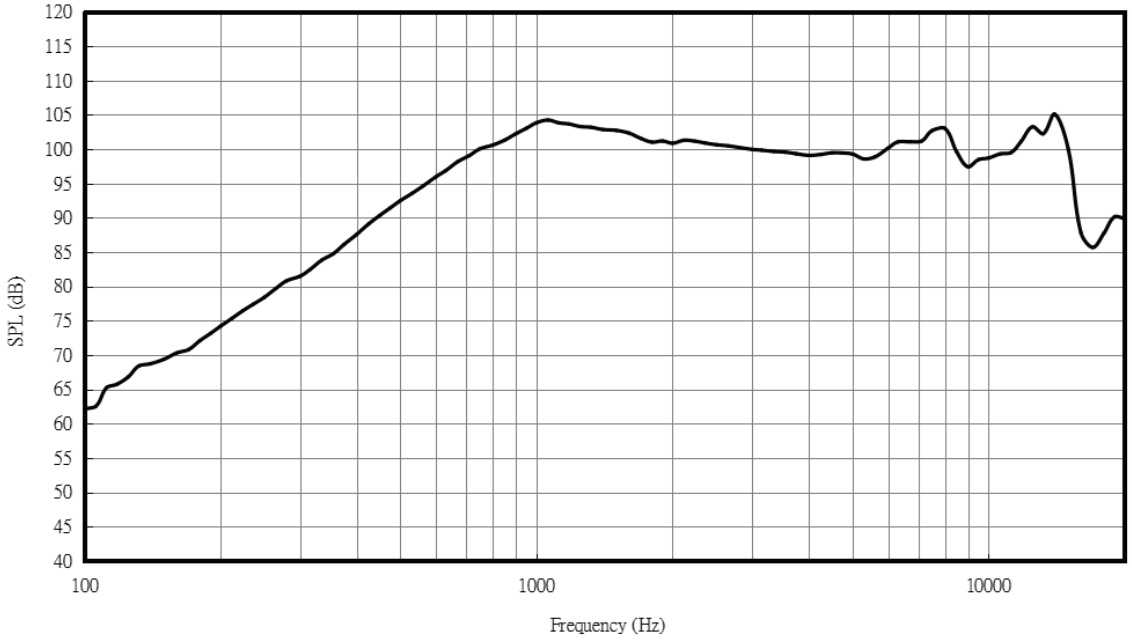
wire: UL1571 30 AWG
used in enclosed speaker CES-40198-24-L200



RESPONSE CURVES

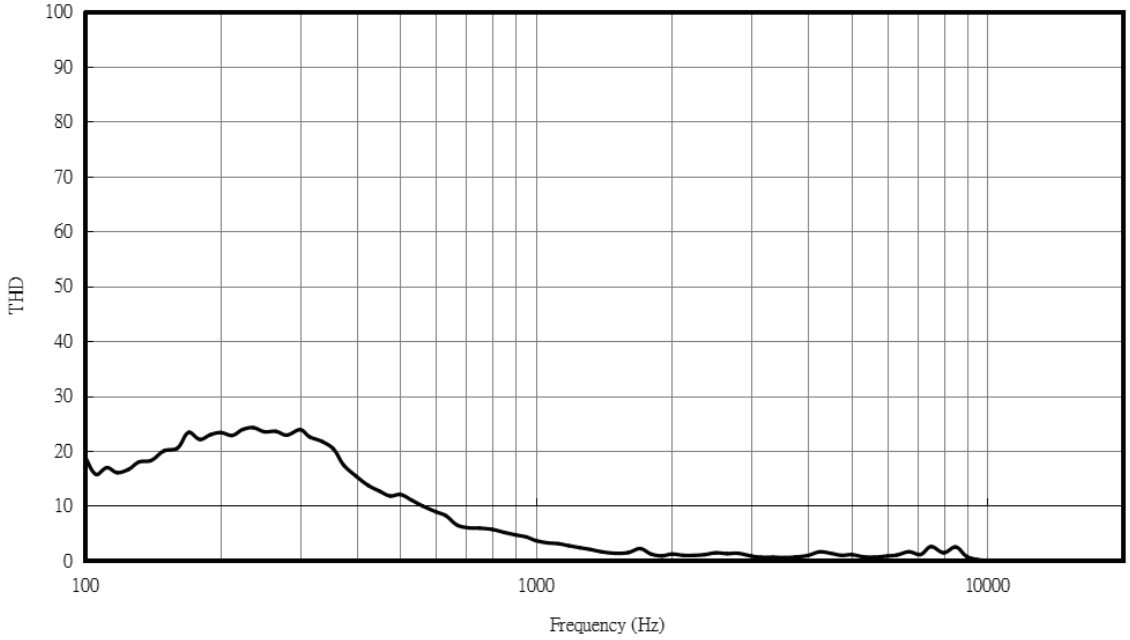
Frequency Response Curve

Test Conditions: 2.83 Vrms/10 cm in 2.2 cc box



Total Harmonic Distortion Curve

Test Conditions: 2.83 Vrms/10 cm in 2.2 cc box



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	1.936
Electrical Q Factor	Qes	3.307
Total Q Factor	Qts	1.221
Compliance Equivalent Volume	Vas	0.0045

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

REVISION HISTORY

rev.	description	date
1.0	initial release	12/01/2025

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

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