

**SERIES:** CES-693016-33X | **DESCRIPTION:** SPEAKER**FEATURES**

- adhesive included on face
- mounting screw holes
- 450 Hz resonant frequency

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	max power: 1 min. on, 2 min. off, 10 cycles		3.0	4.0	W
impedance	at 1.6 kHz, 1 W	3.4	4.0	4.6	Ω
resonant frequency (Fo)	at 3.0 W	360	450	540	Hz
frequency response		Fo		14,000	Hz
sound pressure level	at 3.0 W, 10 cm, avg at 1.2, 1.5, 2.0, 2.5 kHz	99	102	105	dB
distortion	at 1.0 kHz, 3.0 W, 10 cm			10	%
buzz, rattle, etc.	must be normal at sine wave between 300 Hz~3 kHz			3.46	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	69.7 x 30.8 x 17.9				mm
magnet	Nd-Fe-B				
enclosure material	ABS + PC				
cone material	PU + paper				
weight	wire leads model	20.52	22.80	25.08	g
	wire leads with connector model	20.66	22.95	25.25	g
operating temperature		-25		55	°C
storage temperature		-25		55	°C
hand soldering	for 3~5 seconds (wire leads model only)	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**CES - 693016 - 33 XX**

Base Number

Termination Options:

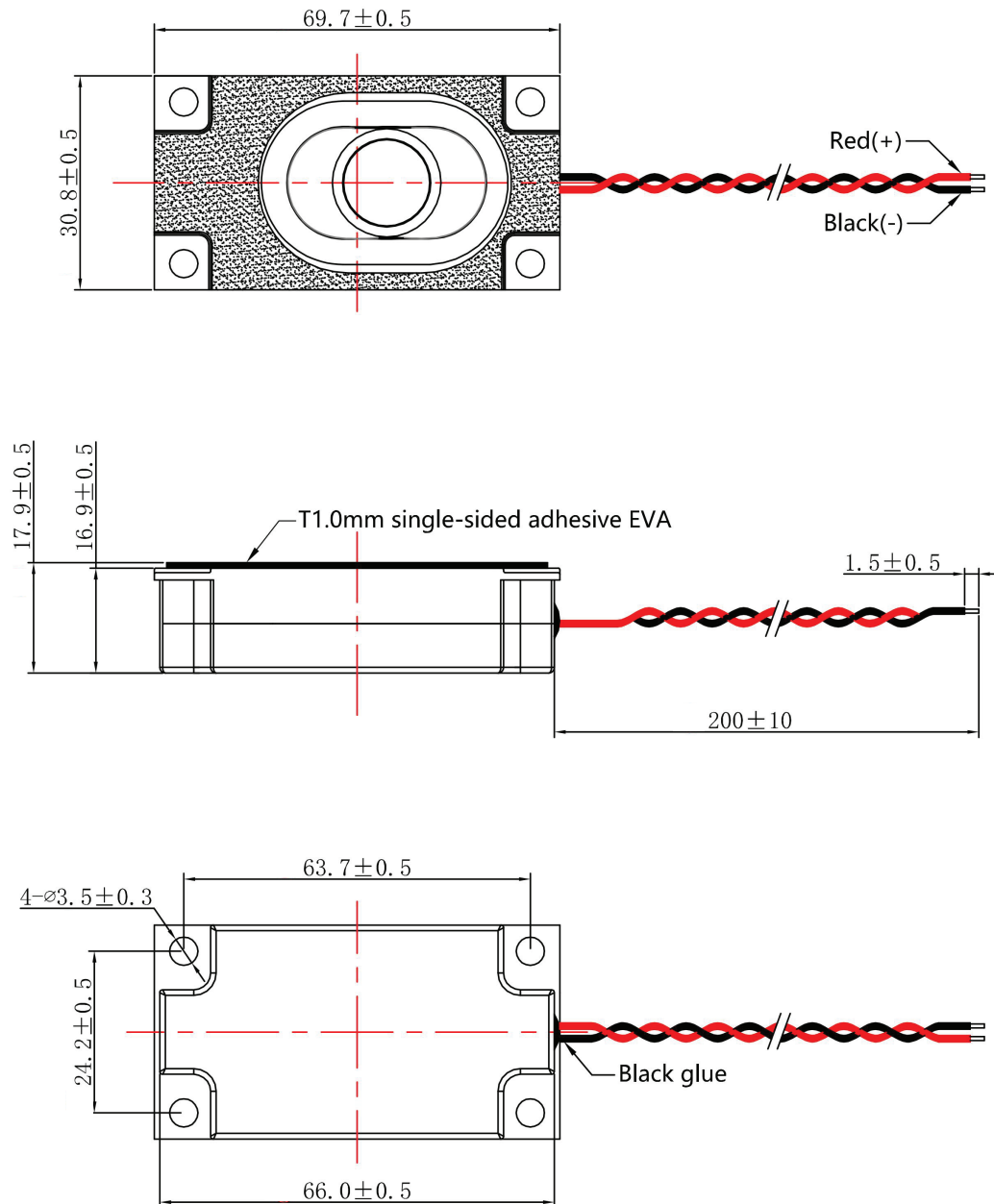
L200 = 200 mm wire leads

L200B = 200 mm wire leads with equivalent to Molex 51021-0200 connector

MECHANICAL DRAWING (WIRE LEADS)

units: mm

wire: UL1571 30 AWG



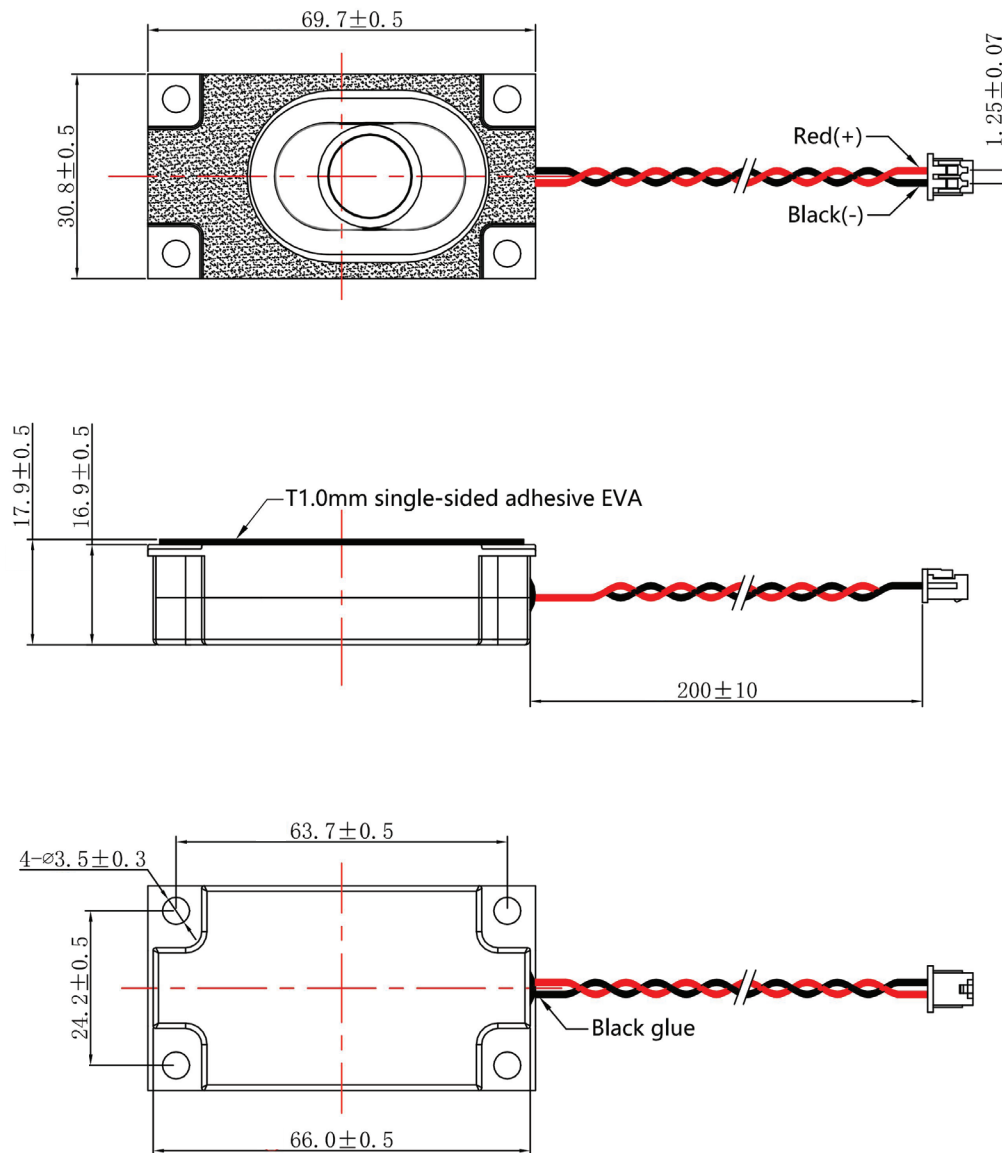
MECHANICAL DRAWING (WIRE LEADS W/ CONNECTOR)

units: mm

wire: UL1571 30 AWG

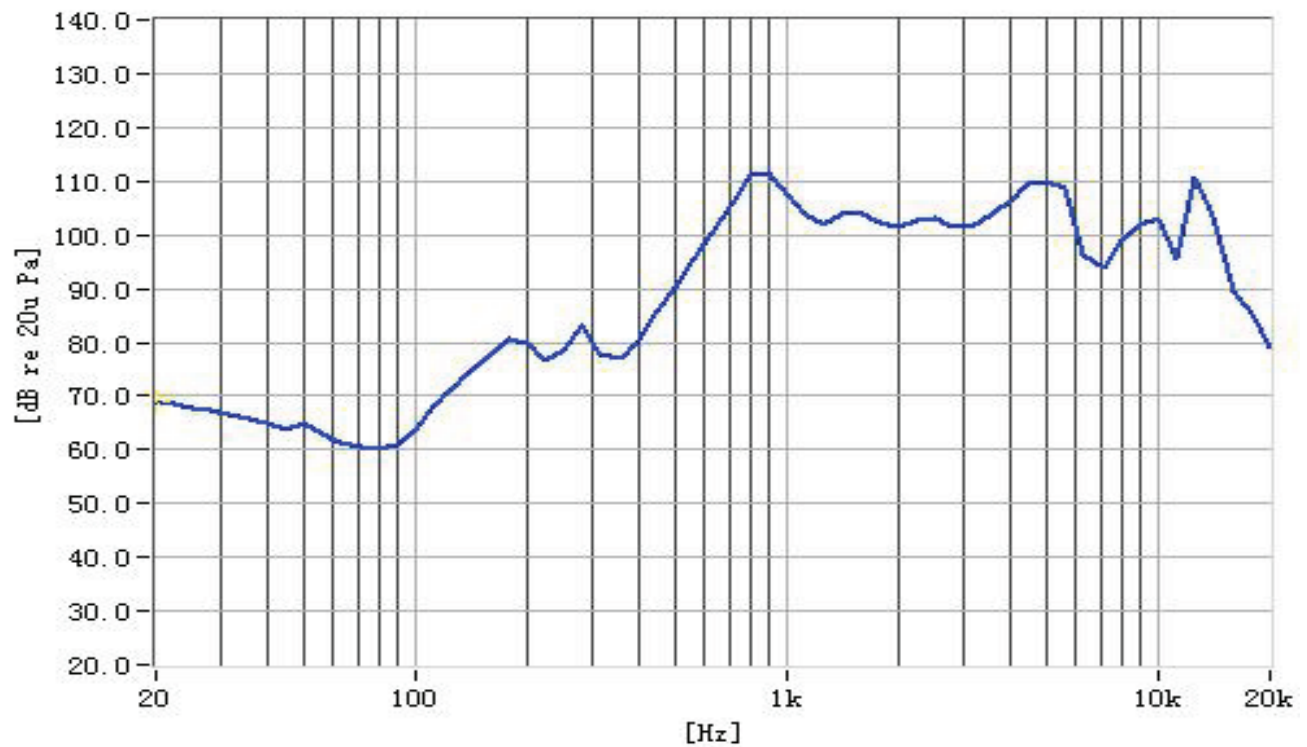
connector: Equivalent to Molex 51021-0200

mating connector: Molex 53261-0271 or equivalent

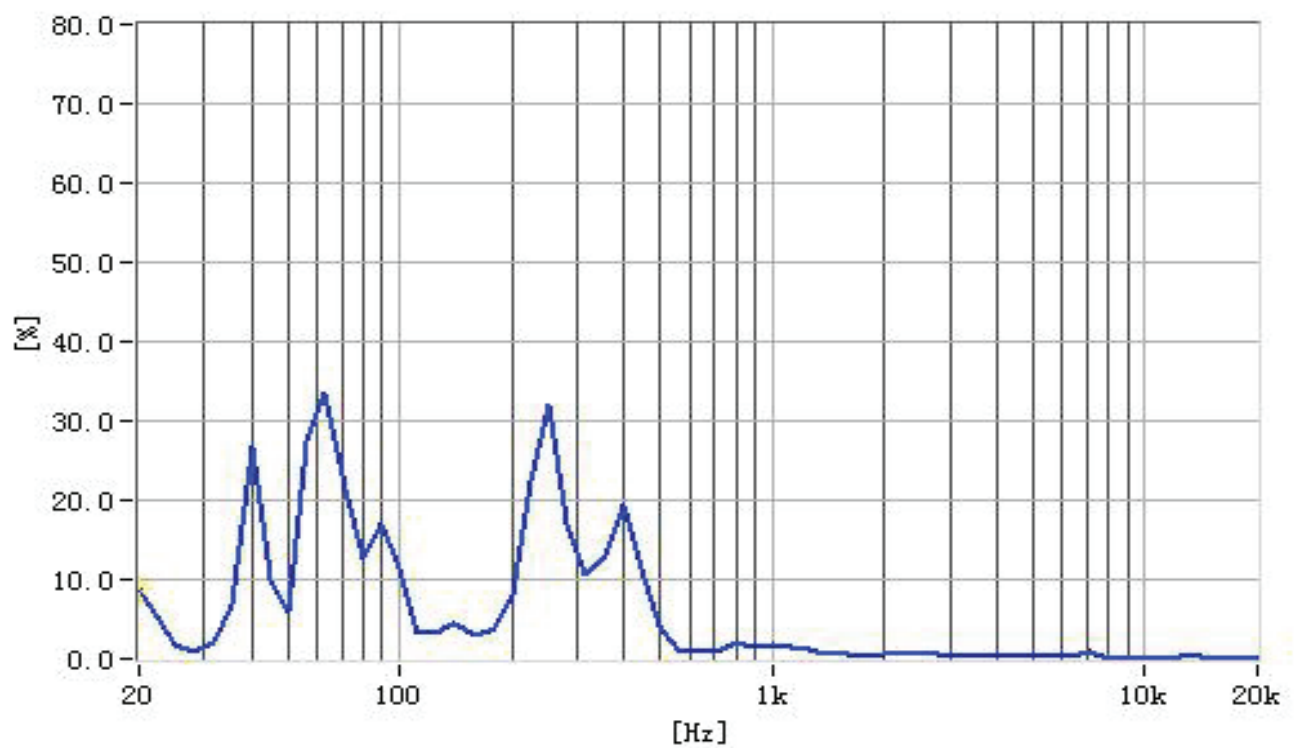


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



REVISION HISTORY

rev.	description	date
1.0	initial release	09/09/2026

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



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