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SERIES: CMS-171222S-037X | DESCRIPTION: SPEAKER

FEATURES

- low power
- 500 Hz resonant frequency
- compact size

RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power	max power: 1 min. on, 2 min. off, 10 cycles		0.3	0.5	W
impedance		5.95	7.00	8.05	Ω
resonant frequency (Fo)	at 1.5 Vrms, 10 cm	400	500	600	Hz
frequency response		Fo		5,000	Hz
sound pressure level	at 1.5 Vrms, 10 cm, avg at 1.0, 1.2, 1.5, 2.0 kHz	82	85	88	dB
distortion	at 1.0 kHz, 1.5 Vrms, 10 cm			10	%
buzz, rattle, etc.	must be normal at sine wave between 300 Hz~5 kHz			1.5	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	17 x 12 x 2.2				mm
magnet	Nd-Fe-B				
frame material	PPA				
cone material	PEEK				
weight	solder pads model wire leads model wire leads with connector model	1.71 2.07 2.12	1.90 2.30 2.35	2.09 2.53 2.59	g g g
operating temperature		-25		65	°C
storage temperature		-25		65	°C
hand soldering	for 3~5 seconds (solder pads and wire leads models 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

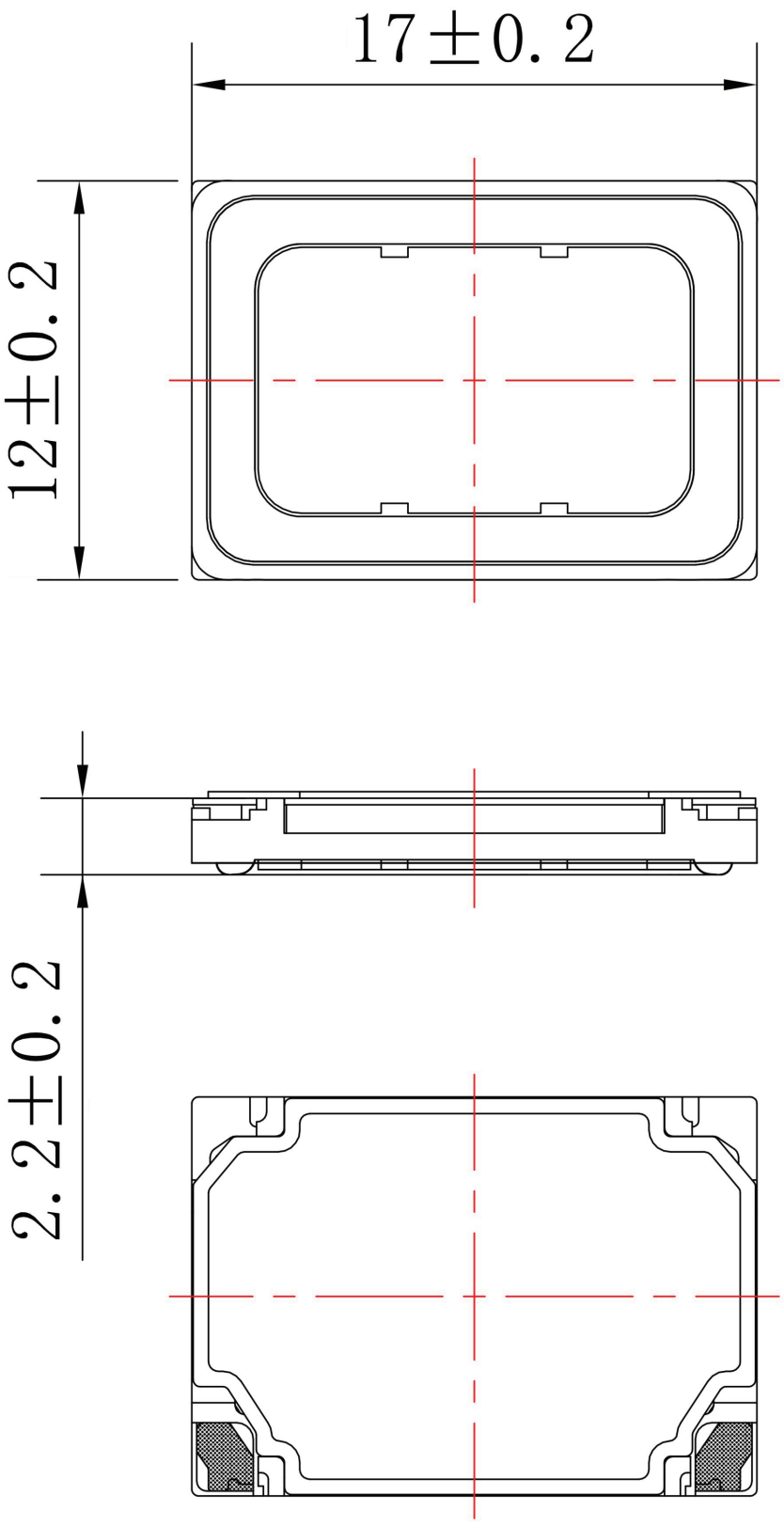
CMS - 171222S - 037 **XX**

Base Number

Termination Options:
SP = solder pads
L100 = 100 mm wire leads
L100B = 100 mm wire leads with equivalent to Molex 51021-0200 connector

MECHANICAL DRAWING (SOLDER PADS)

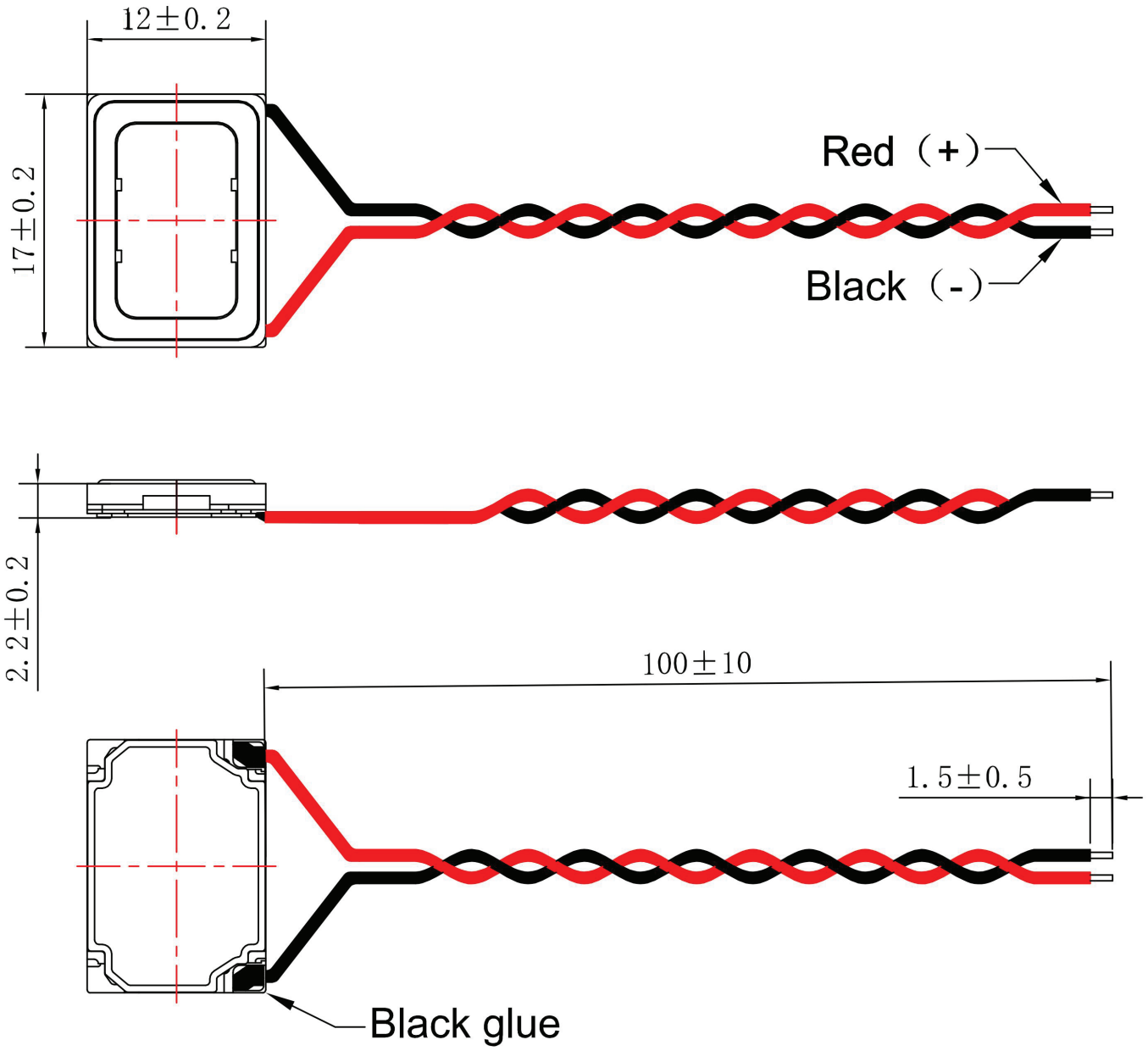
units: mm



MECHANICAL DRAWING (WIRE LEADS)

units: mm

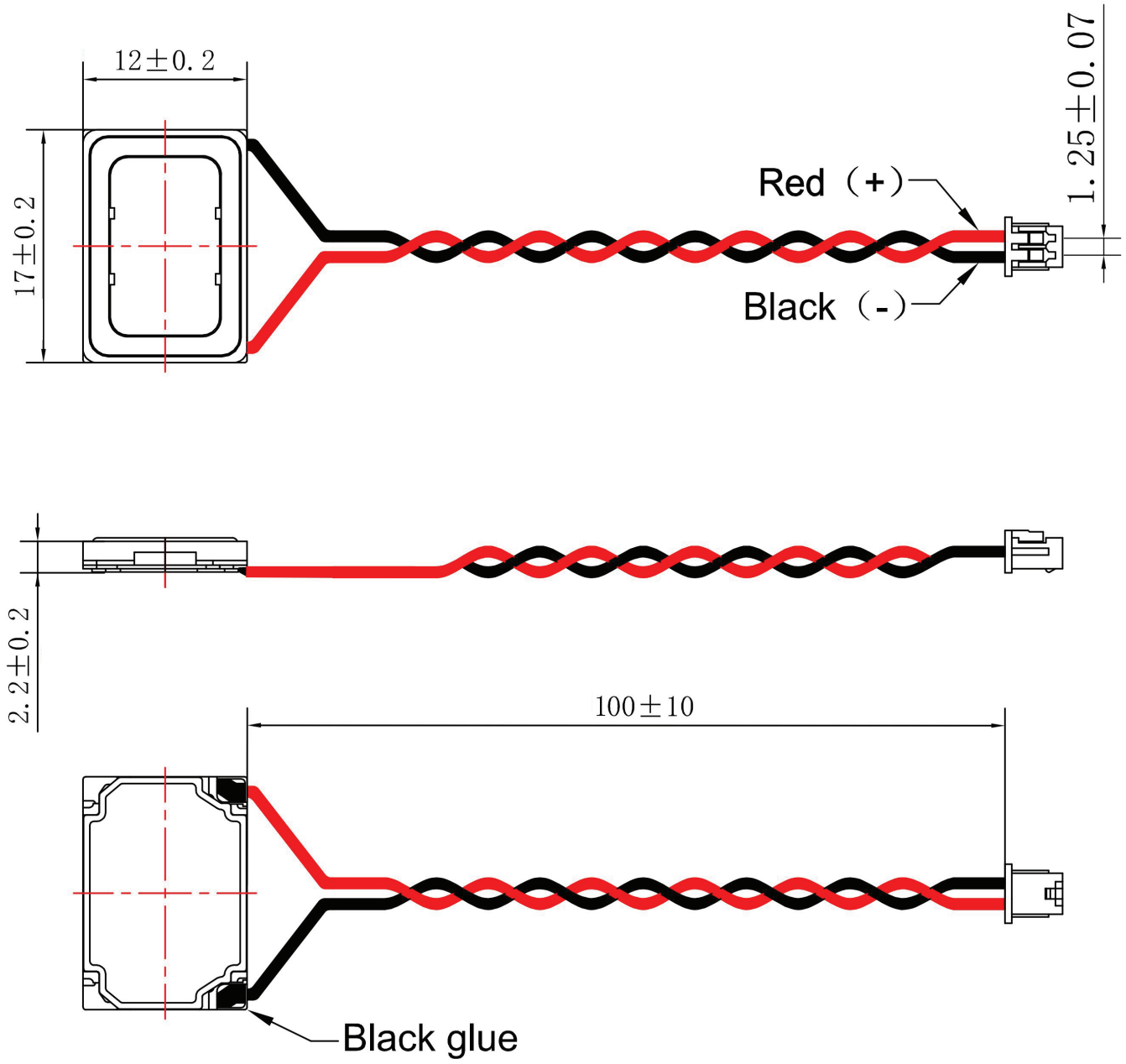
wire: UL1571 30 AWG



MECHANICAL DRAWING (WIRE LEADS W/ CONNECTOR)

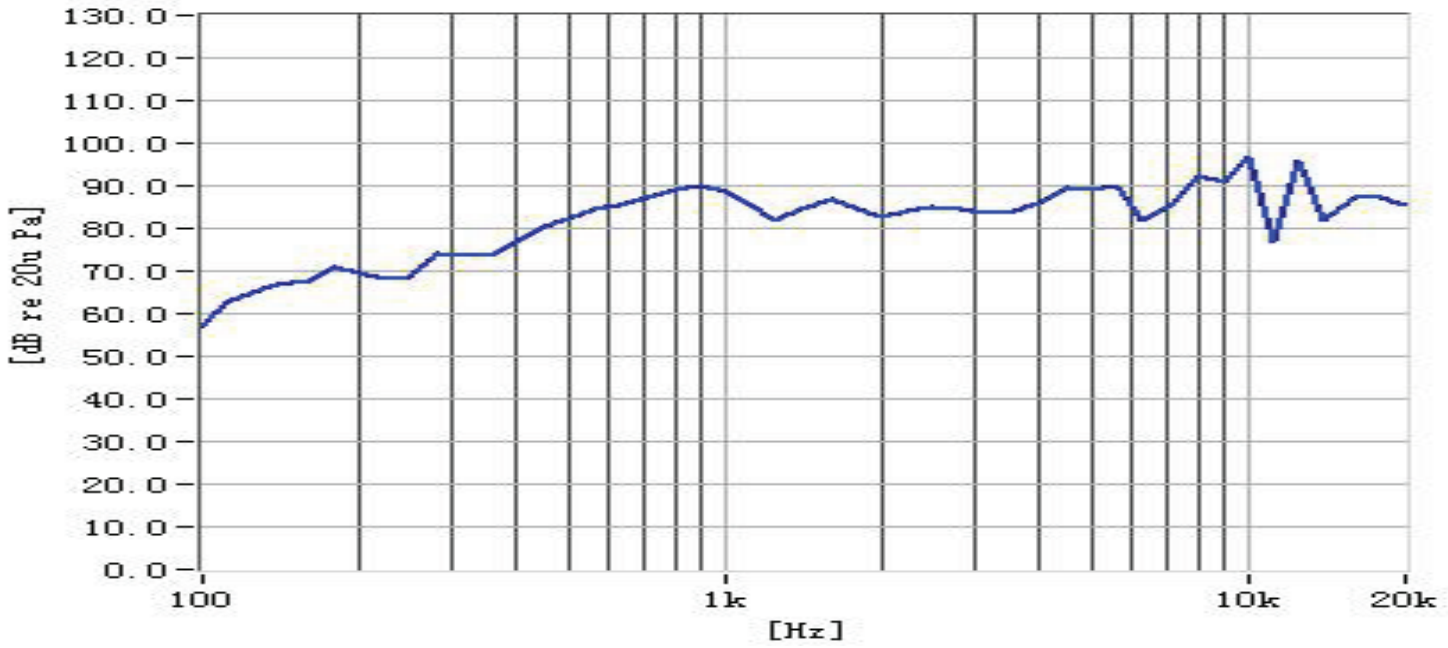
units: mm

wire: UL1571 30 AWG
connector: Equivalent to Molex 51021-0200
mating connector: Molex 53261-0271 or equivalent

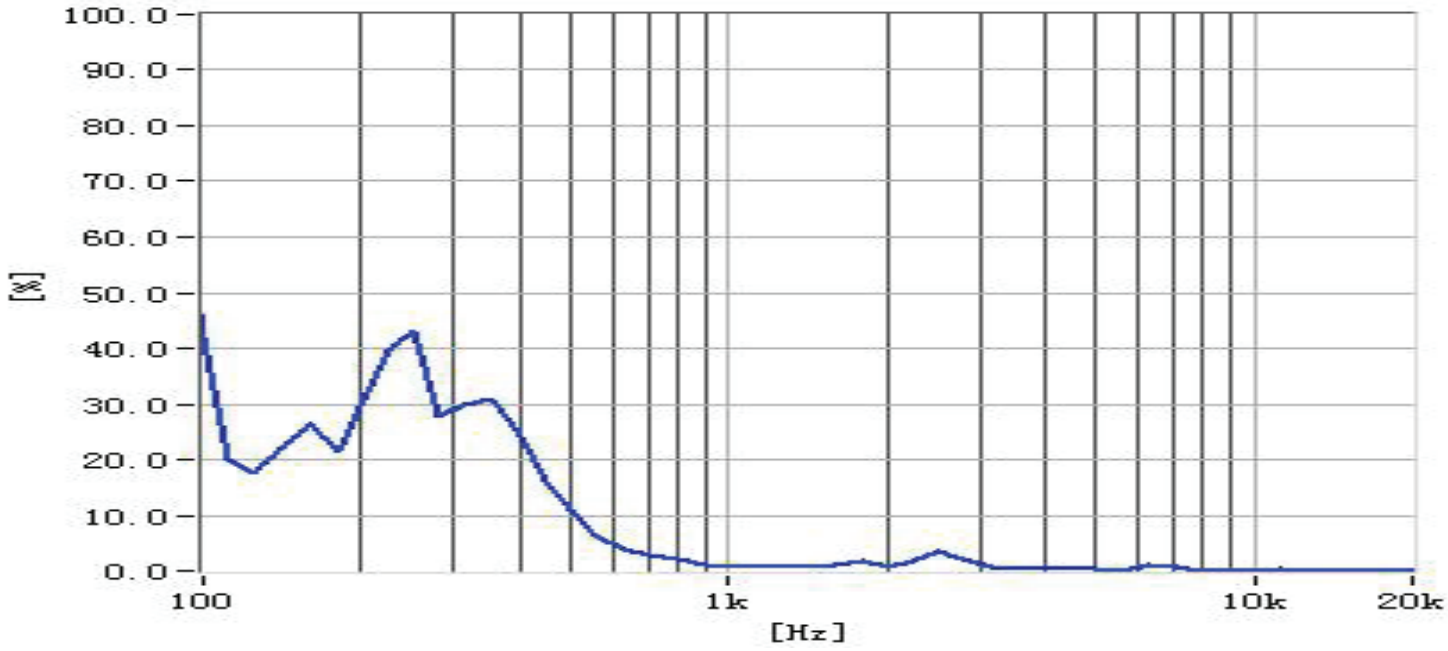


RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.297
Electrical Q Factor	Qes	3.320
Total Q Factor	Qts	1.358
Compliance Equivalent Volume	Vas	0.0031

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

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.

same sky

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