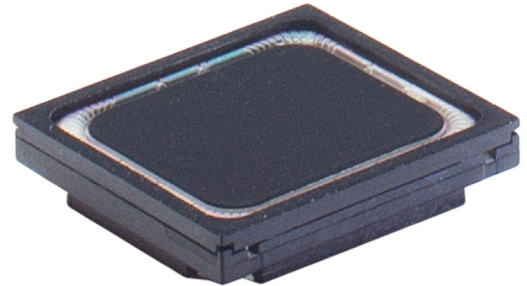


**SERIES:** CMS-18163-24X | **DESCRIPTION:** SPEAKER**FEATURES**

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

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	max power: 1 min on, 2 min off, 10 cycles in 1 cc box		2.0	2.2	W
impedance	at 2.0 kHz, 2.83 Vrms	3.2	4.0	4.8	Ω
coil resistance		2.88	3.60	4.32	Ω
resonant frequency [Fo]	at 2.83 Vrms, 10 cm in 1 cc box	800	1,000	1,200	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 2.0 W, 10 cm, avg at 1.0, 1.5, 2.0 kHz in 1 cc box	101	104	107	dB
distortion	at 2.0 kHz, 2.83 Vrms, 10 cm			10	%
buzz, rattle, etc.	must be normal at sine wave, between 0.2~2.0 kHz in 1 cc box			2.83	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	18 x 16 x 3.7				mm
magnet	Nd-Fe-B				
frame material	PPA				
cone material	PEEK				
weight	spring contacts and solder pads models	2.85	3.35	3.85	g
	wire leads model	3.10	3.60	4.10	g
operating temperature		-20		60	°C
storage temperature		-20		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 - 18163 - 24 XX**

Base Number

Termination Options:

S = spring contacts

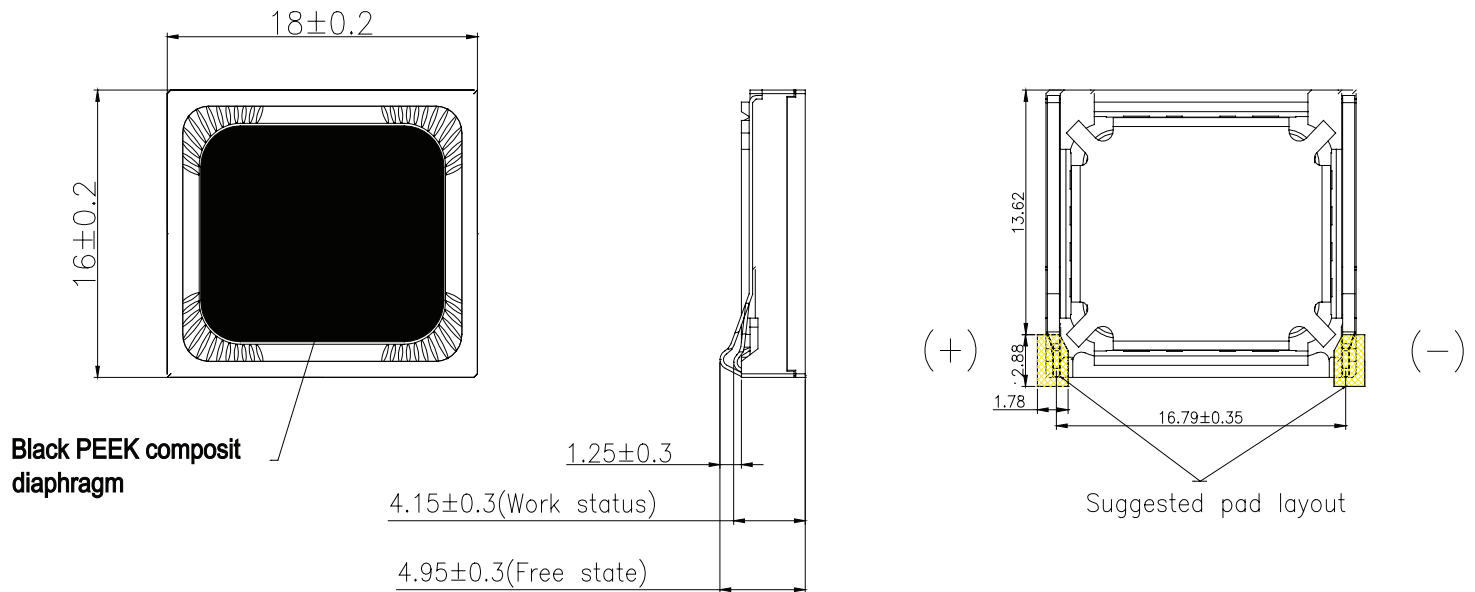
SP = solder pads

L200 = wire leads

MECHANICAL DRAWING (SPRING CONTACTS)

units: mm
tolerance: ± 0.2 mm

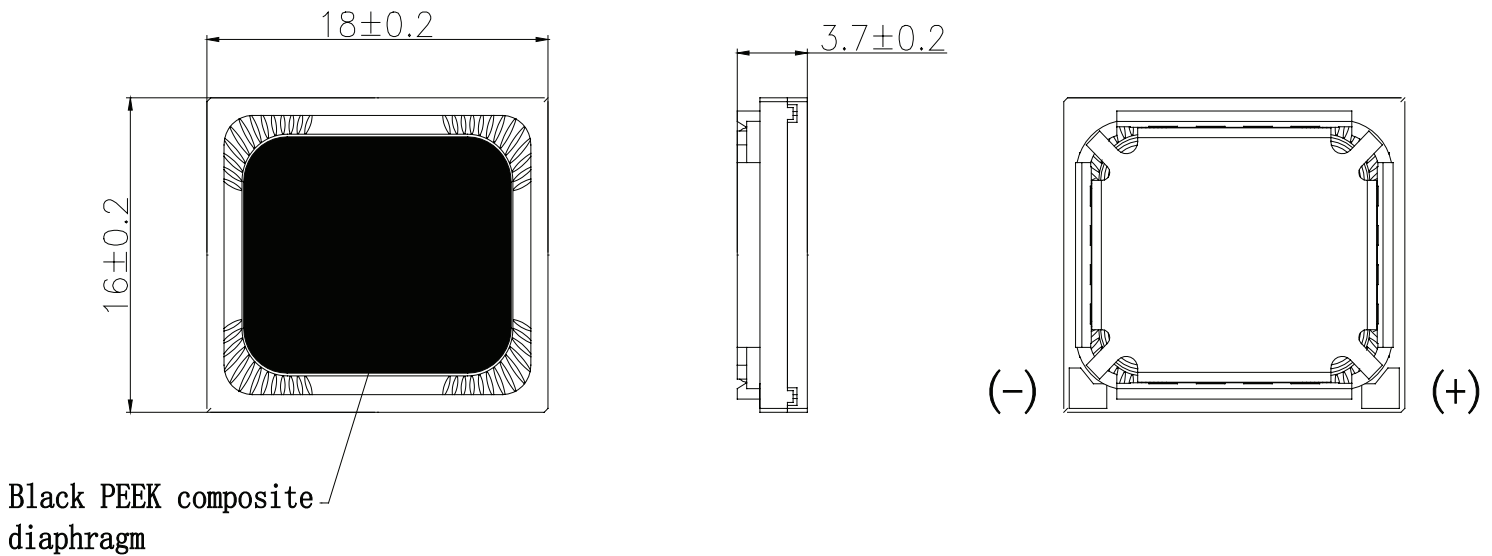
used in enclosed speaker CES-28266-24-L200



MECHANICAL DRAWING (SOLDER PADS)

units: mm
tolerance: ± 0.2 mm

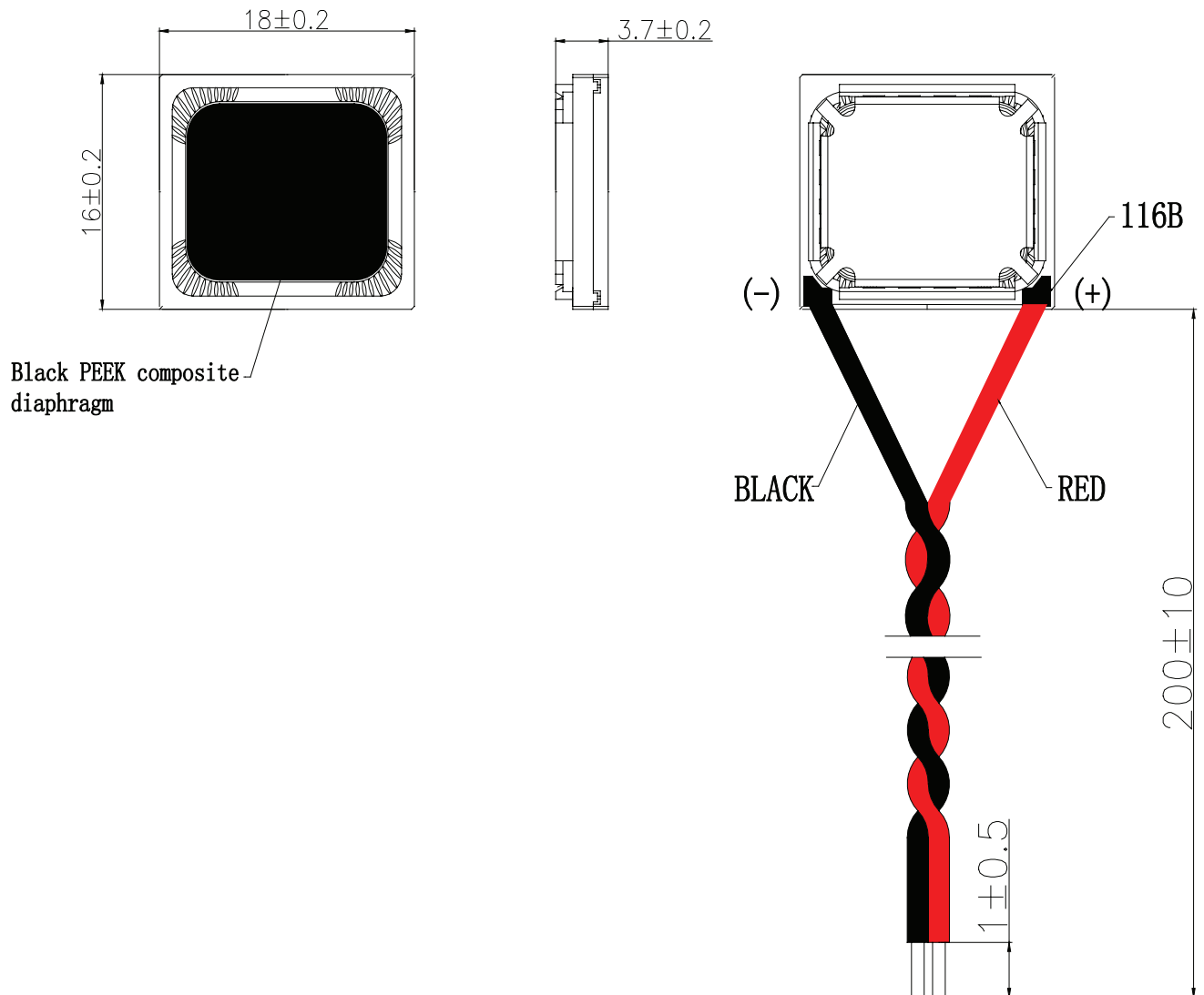
used in enclosed speaker CES-28266-24-L200



MECHANICAL DRAWING (WIRE LEADS)

units: mm
tolerance: ± 0.2 mm

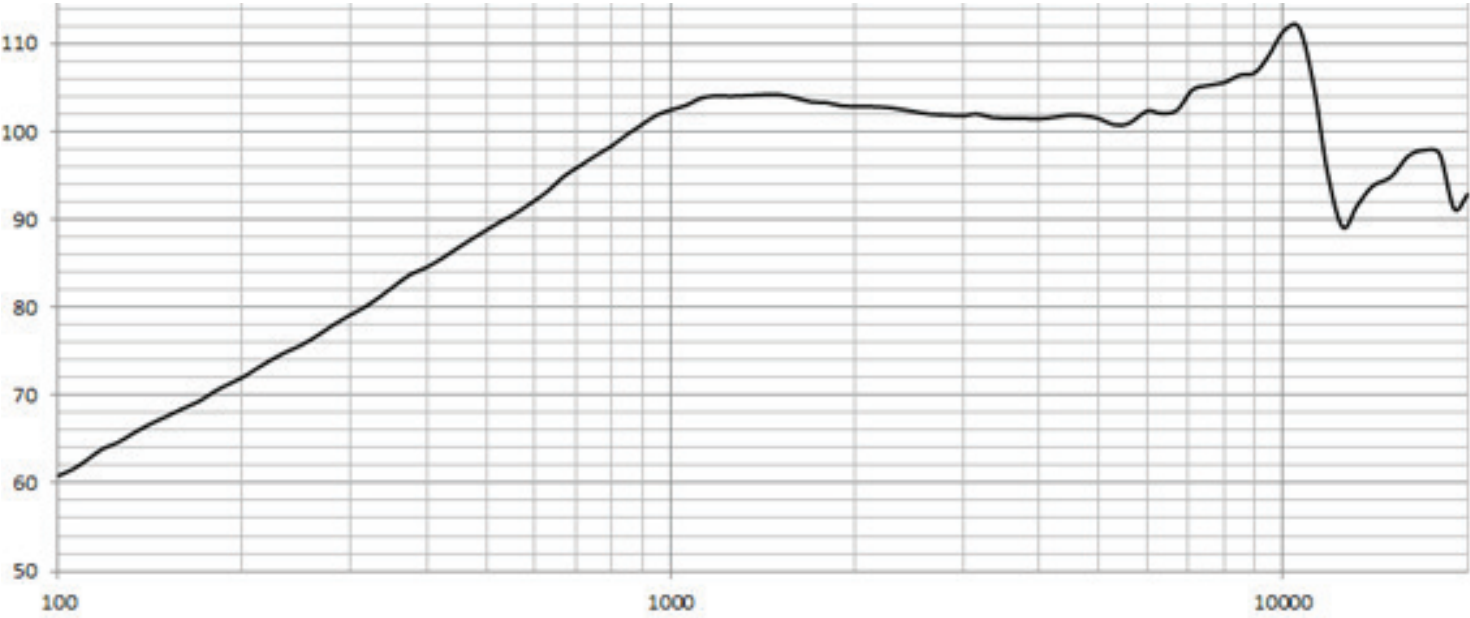
wire: UL1571 30 AWG
used in enclosed speaker CES-28266-24-L200



RESPONSE CURVES

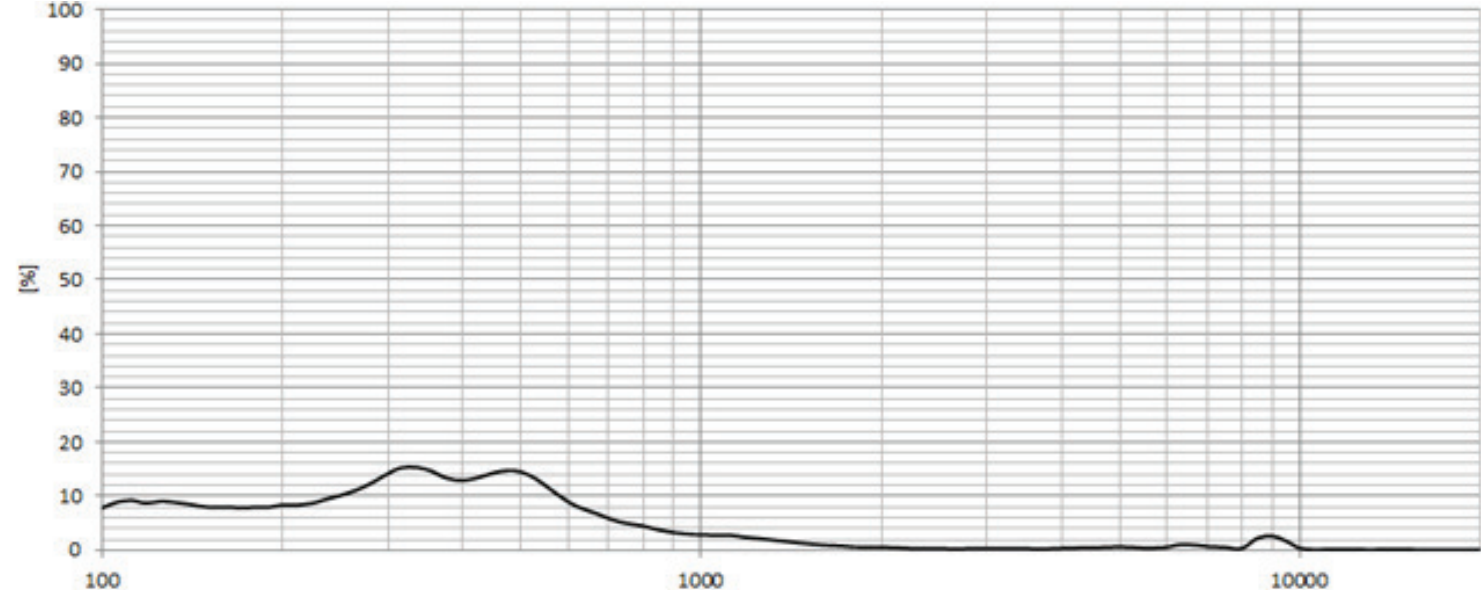
Frequency Response Curve

Test Conditions: 2.83 Vrms / 10 cm in 1 cc box



Total Harmonic Distortion Curve

Test Conditions: 2.83 Vrms / 10 cm in 1 cc box



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	1.348
Electrical Q Factor	Qes	2.69
Total Q Factor	Qts	0.898
Compliance Equivalent Volume	Vas	0.0043

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.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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