

**MODEL:** CMS-1805-24SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 4 ohm
- rated 1.0 W
- solder pads

**SPECIFICATIONS**

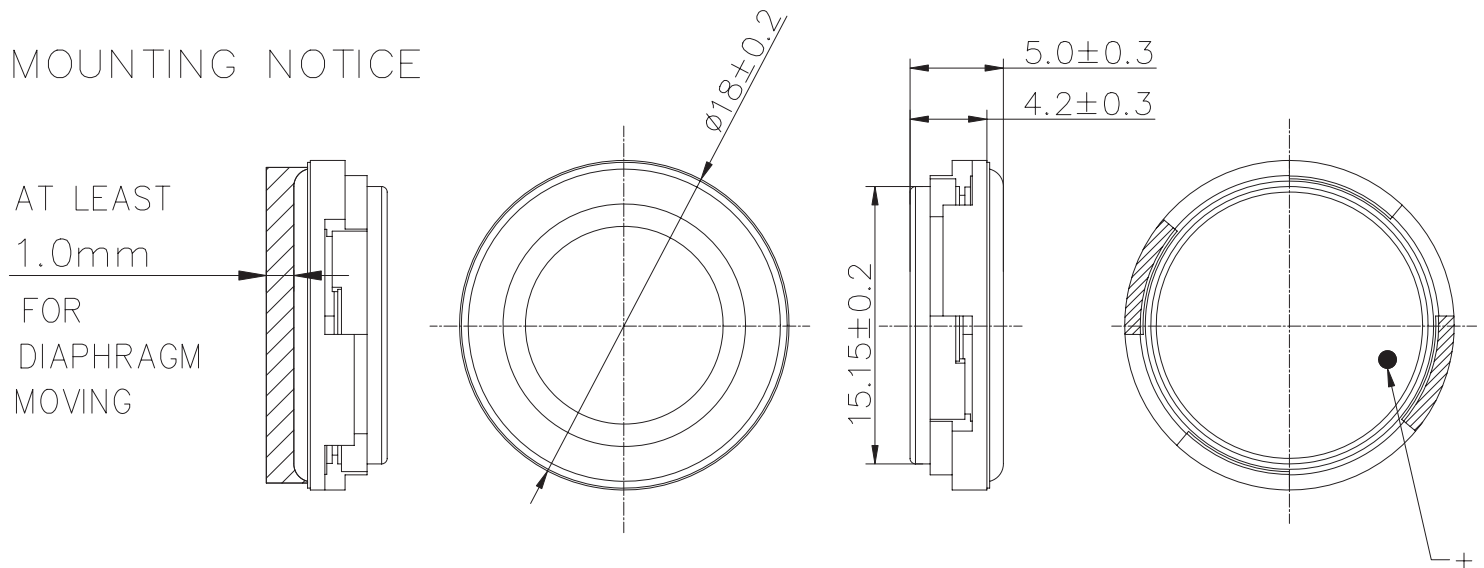
parameter	conditions/description	min	typ	max	units
input power	in free air		1	1.5	W
	in 5 cc box		2	2.5	W
impedance		3.4	4	4.6	Ω
resonant frequency (Fo)	in free air	304	380	456	Hz
	in 5 cc box	488	610	732	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 1.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz, in free air	76	79	82	dB
	at 2.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz, in 5 cc box	76	79	82	dB
distortion	at 1.0 kHz, 1.0 W, 50 cm			5	%
buzz, rattle, etc.	must be normal at sine wave, frequency range			2.0	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	$\varnothing 18 \times 5.0$				mm
magnet	Nd-Fe-B				
frame material	PBT + 15% GF				
cone material	PU + PEN				
terminal	solder pads				
weight			3.2		g
operating temperature		-20		55	$^{\circ}\text{C}$
storage temperature		-25		60	$^{\circ}\text{C}$
hand soldering	for maximum 2 seconds	360		380	$^{\circ}\text{C}$
RoHS	yes				

Notes: 1. All specifications measured at 15-35 $^{\circ}\text{C}$, humidity at 25-75%, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

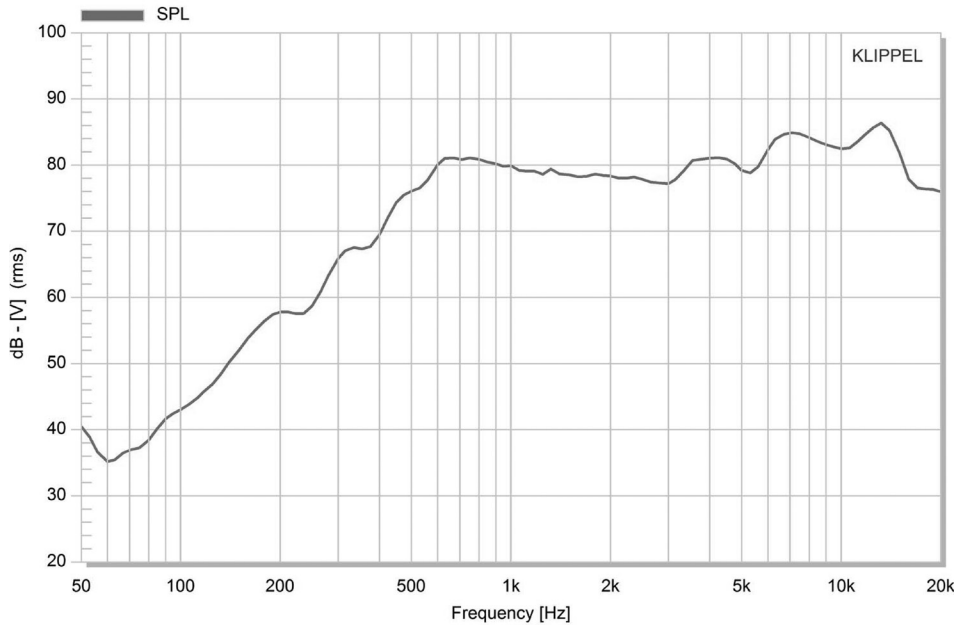
MOUNTING NOTICE



RESPONSE CURVES (IN FREE AIR)

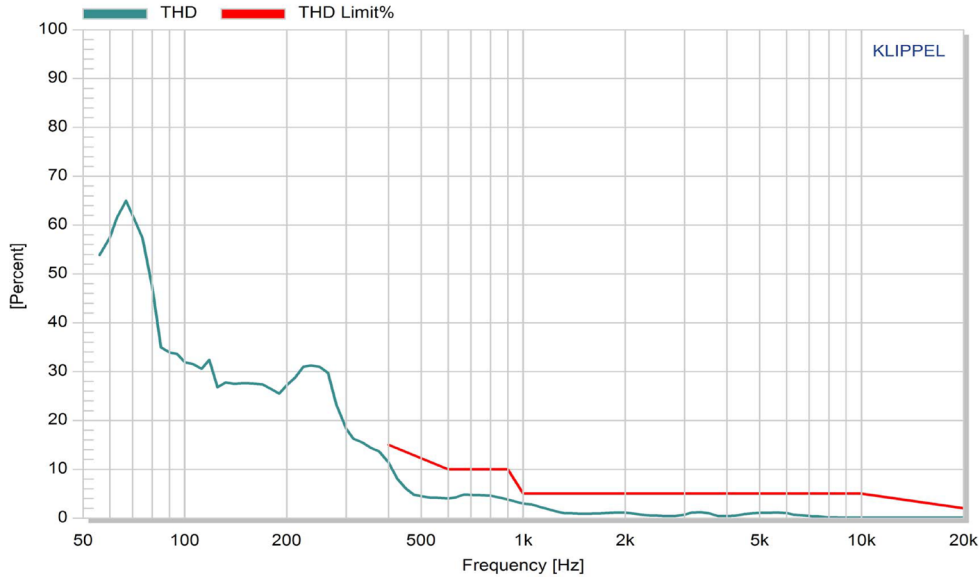
Frequency Response Curve

Test Conditions: 1.0 W / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 1.0 W / 50 cm



Frequency[Hz]	400	600	900	1000	10000	20000
THD Limit[%]	15	10	10	5	5	2

THIELE-SMALL PARAMETERS

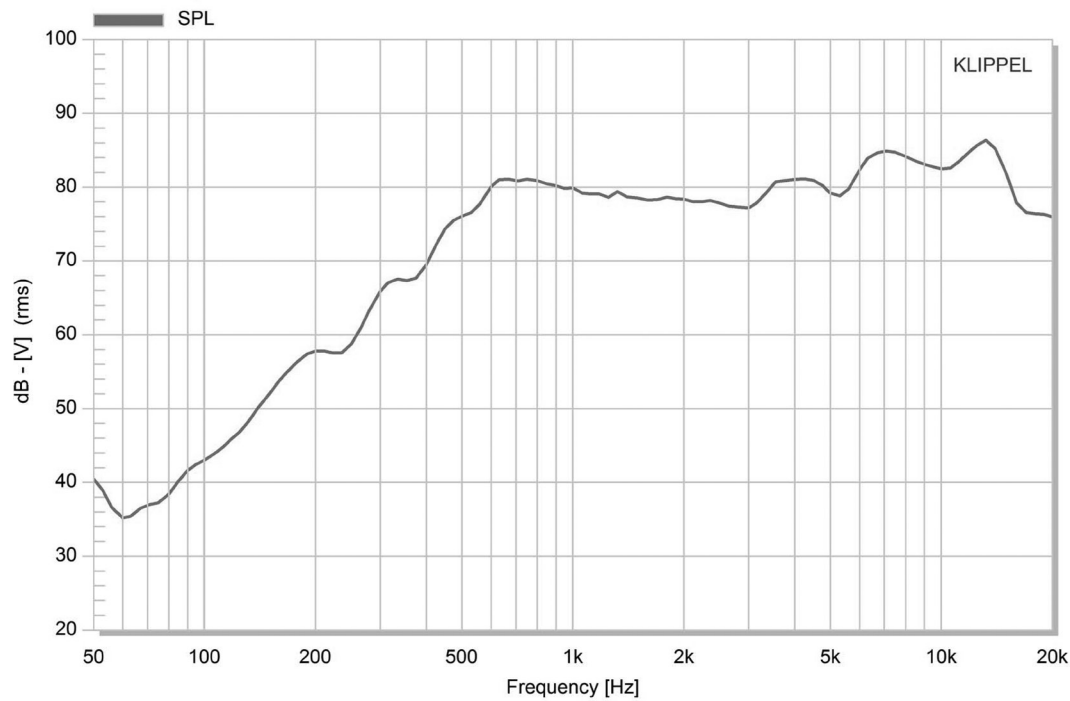
parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.173
Electrical Q Factor	Qes	2.774
Total Q Factor	Qts	1.218
Compliance Equivalent Volume	Vas	0.0051

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

RESPONSE CURVES (IN 5 CC BOX)

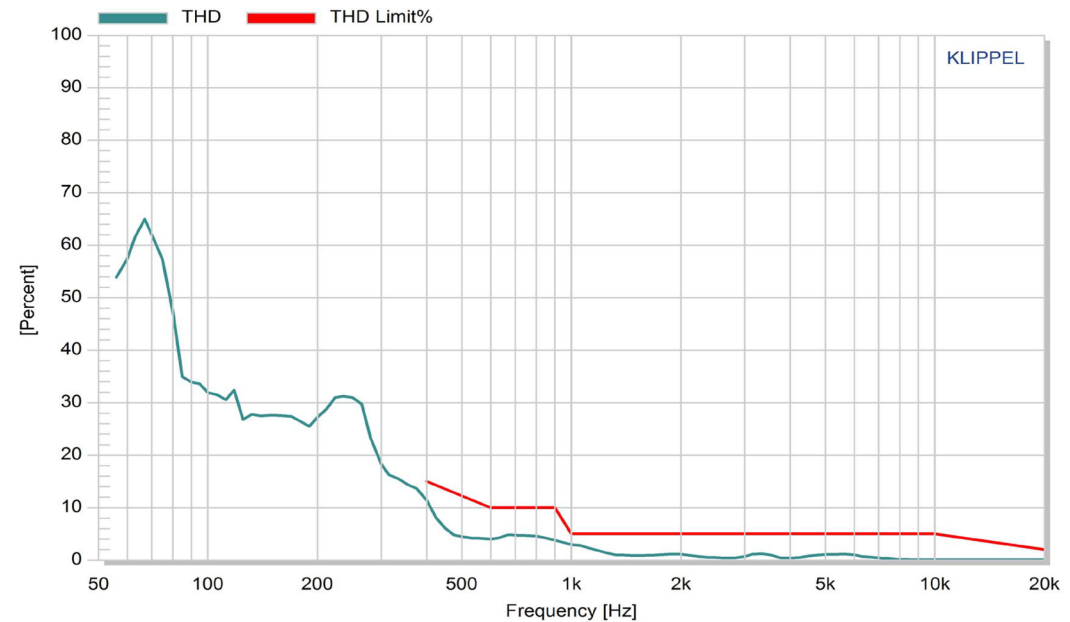
Frequency Response Curve

Test Conditions: 2.0 W / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 2.0 W / 50 cm



Frequency[Hz]	400	600	900	1000	10000	20000
THD Limit[%]	15	10	10	5	5	2

REVISION HISTORY

rev.	description	date
1.0	initial release	06/27/2023
1.01	CUI Devices rebranded to Same Sky	09/11/2024
1.02	added Thiele-Small Parameters	01/30/2025

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



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