



MODEL: CDS-4224-84SP | DESCRIPTION: SPEAKER

FEATURES

- 4 ohm
- rated 8.0 W
- solder terminals



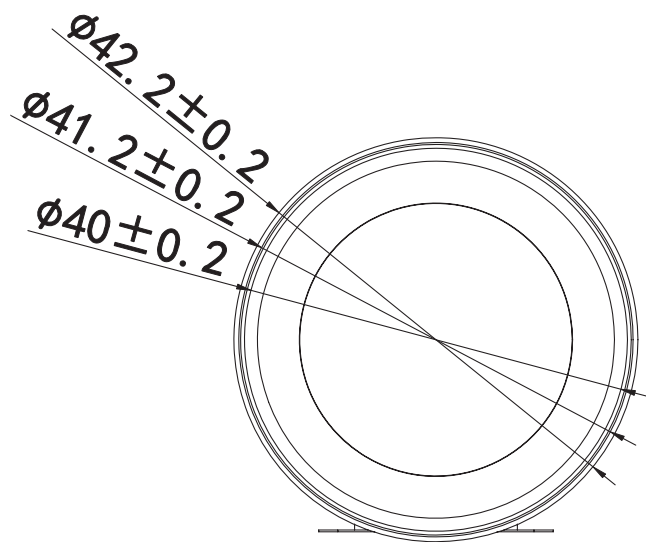
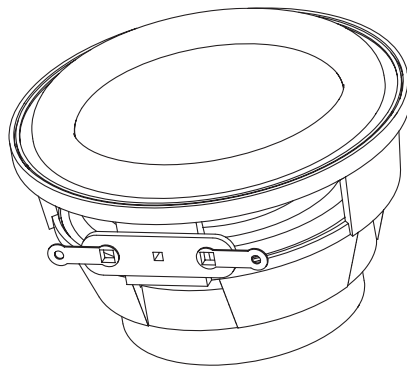
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power			8	10	W
impedance		3.4	4	4.6	Ω
resonant frequency (Fo)		176	220	264	Hz
frequency response		90		20,000	Hz
sound pressure level	at 1.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz on baffle	80.5	83.5	86.5	dB
distortion	at 1.0 kHz, 1.0 W, 50 cm on baffle			5	%
buzz, rattle, etc.	must be normal at sine wave			5.66	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	$\varnothing 42.2 \times 26.9$				mm
magnet	Nd-Fe-B				
frame material	PBT + 15% GF				
cone material	PEI				
terminal	solder terminals				
weight			475		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°C, humidity at 25~75%, unless otherwise noted.

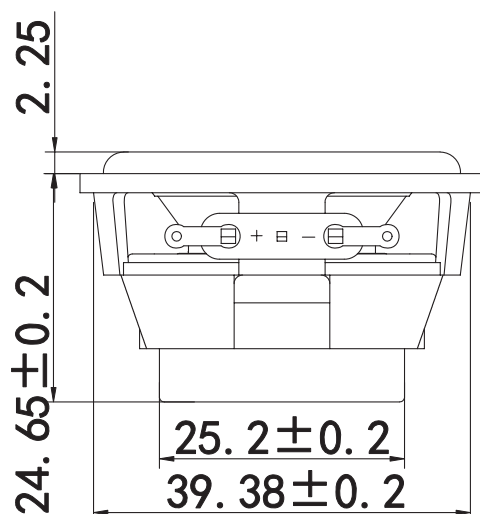
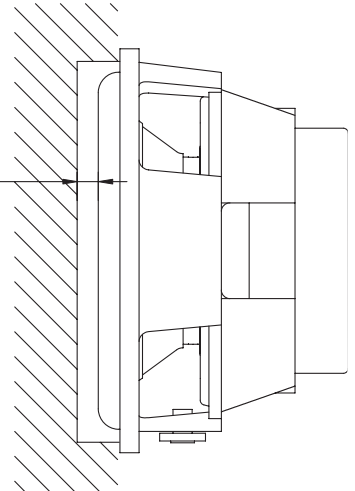
MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm



MOUNTING NOTICE

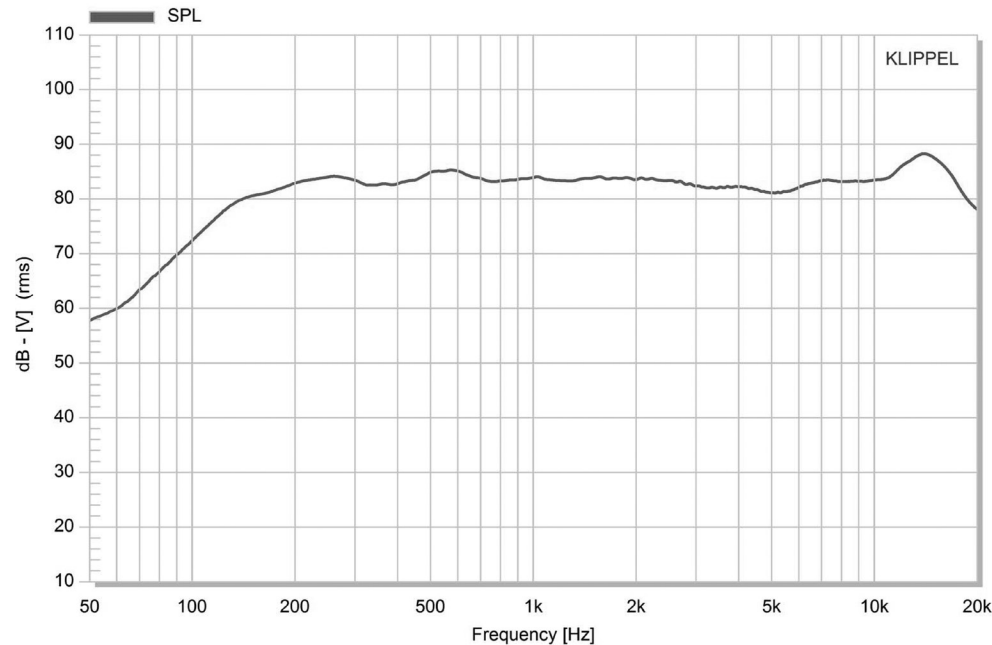
MAXIMUM
2.5mm
FOR
DIAPHRAGM
MOVING



RESPONSE CURVES

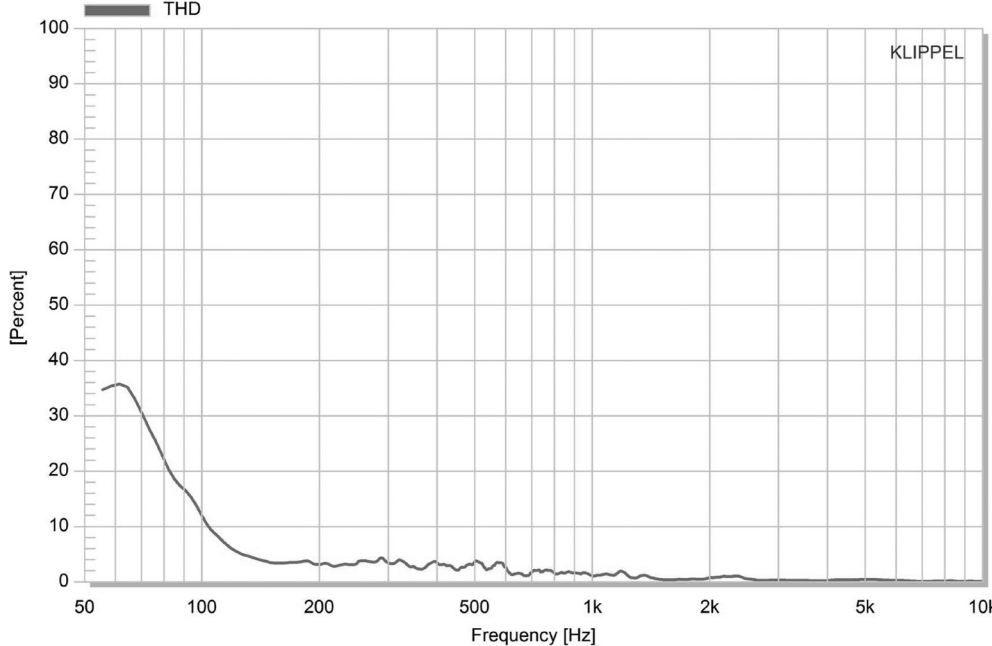
Frequency Response Curve

Test Conditions: 1.0 W / 50 cm (on baffle)



Total Harmonic Distortion Curve

Test Conditions: 1.0 W / 50 cm (on baffle)



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	6.153
Electrical Q Factor	Qes	1.151
Total Q Factor	Qts	0.97
Compliance Equivalent Volume	Vas	0.0395

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

REVISION HISTORY

rev.	description	date
1.0	initial release	07/11/2023
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.



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

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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