



MODEL: CMS-1849-24SP | DESCRIPTION: SPEAKER

FEATURES

- 4 ohm
- rated 2.0 W
- solder pads



SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power			2	2.5	W
impedance		3.4	4	4.6	Ω
resonant frequency (Fo)		424	530	636	Hz
frequency response		350		16,000	Hz
sound pressure level	at 2.0 W, 50 cm, 710Hz~10KHz, for calculation of mean SPL (1/12 octave)	79.5	82.5	85.5	dB
distortion	at 2.0 W, 50 cm, 710 Hz ~ 20 kHz (with barrier)			10	%
buzz, rattle, etc.	must be normal at sine wave			2.83	V
polarity	cone moves forward w/ positive dc current to “+” terminal				
dimensions	Ø18 x 4.9				mm
magnet	Nd-Fe-B				
frame material	PBT + 15% GF				
cone material	PU + PEI				
terminal	solder pads				
weight			3		g
operating temperature		-20		55	°C
storage temperature		-25		60	°C
hand soldering	for maximum 2 seconds	360		380	°C
RoHS	yes				

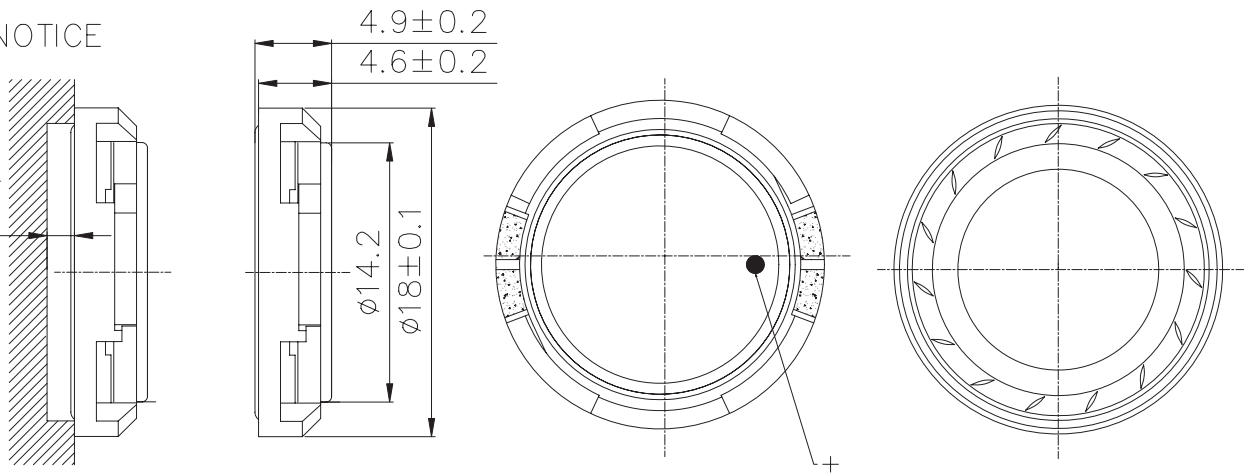
Notes: 1. All specifications measured at 15~35°C, humidity at 25~75%, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

MOUNTING NOTICE

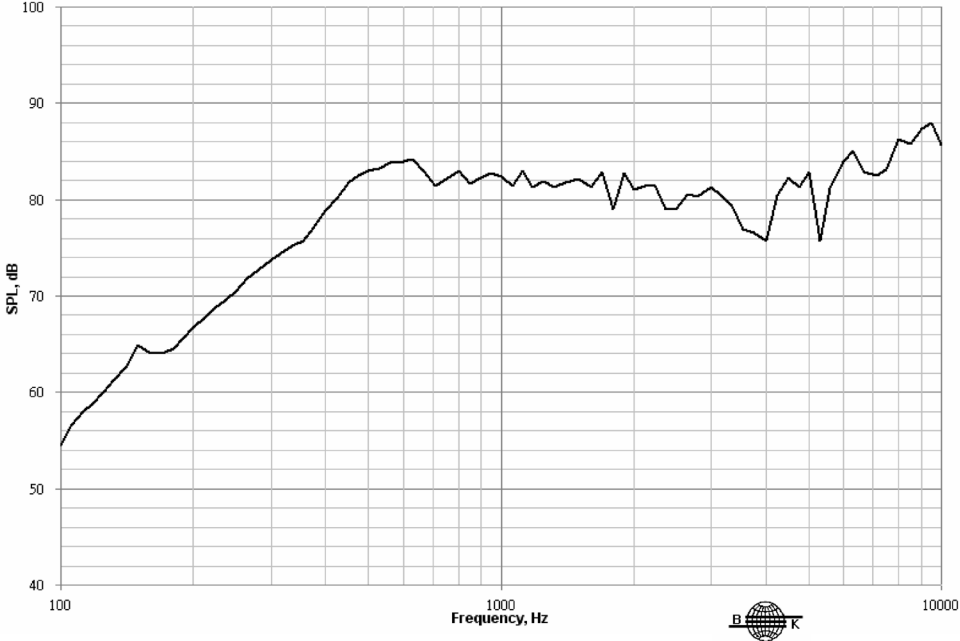
Leave
at Least
1.20 mm for
diaphragm
moving



RESPONSE CURVES

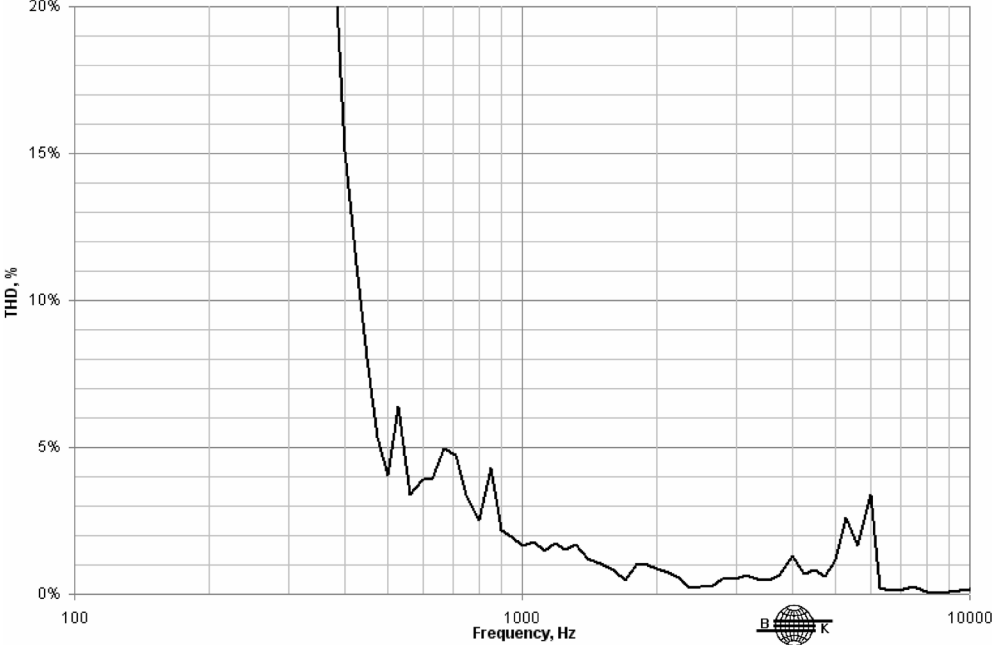
Frequency Response Curve

Test Conditions: 2.83 V / 50 cm



Total Harmonic Distortion Curve

Test Conditions: 2.83 V / 50 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.211
Electrical Q Factor	Qes	5.073
Total Q Factor	Qts	1.54
Compliance Equivalent Volume	Vas	0.0024

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

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.



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

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