CUDEVICES

MODEL: CMS-181345-18S-X8 | **DESCRIPTION:** SPEAKER

FEATURES

- IPX8 rated
- rated 1.0 W
- 8 Ω



RoHS IPX8

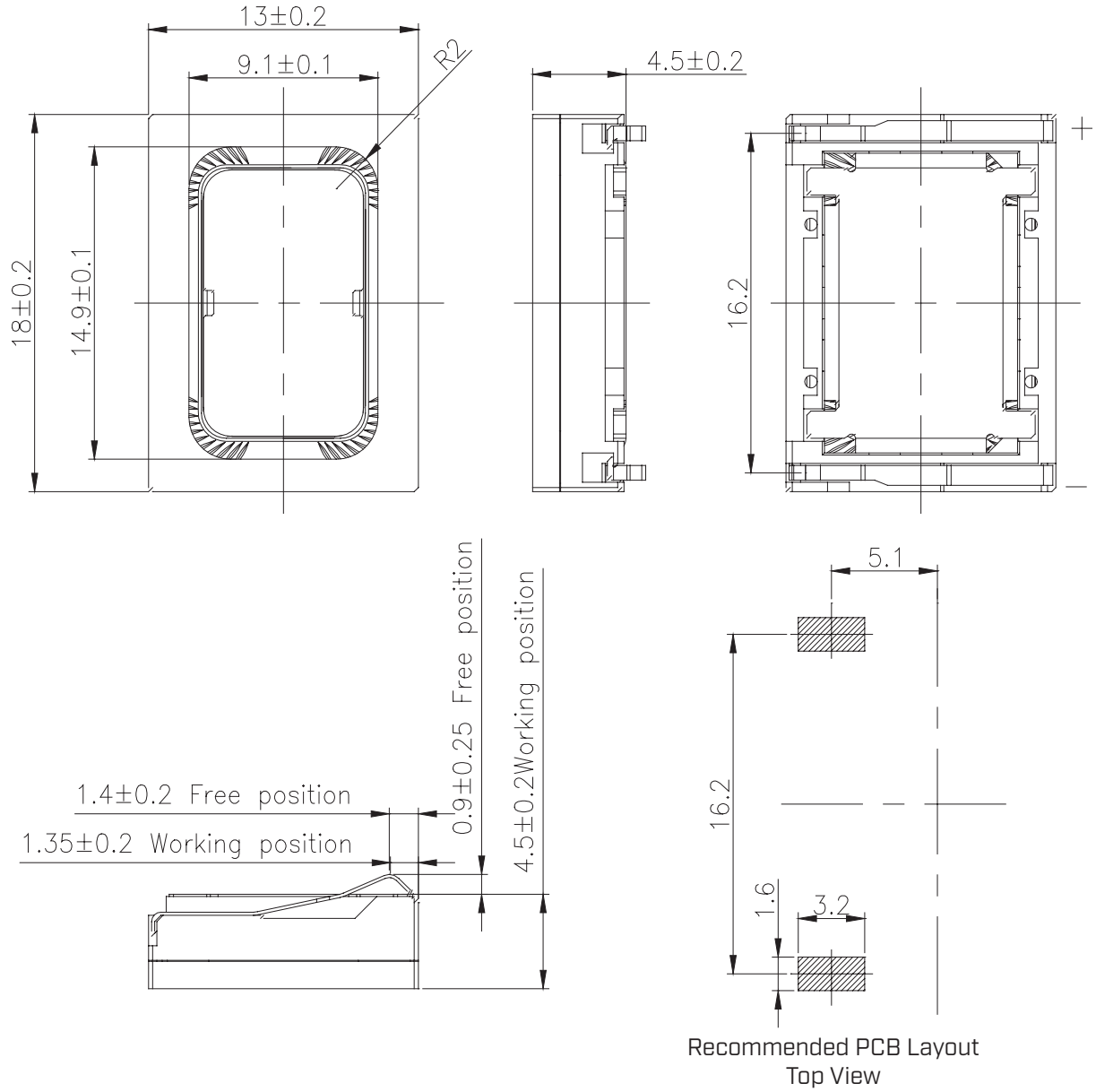
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power	max power: as per IEC-268-5, in 1 cc box		1.0	1.2	W
impedance	at 2.0 kHz, 2.83 Vrms	6.8	8	9.2	Ω
resonant frequency (Fo)	at 2.83 Vrms, 10 cm in free air at 2.83 Vrms, 10 cm in 1 cc box	400 760	500 950	600 1,140	Hz Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 2.83 Vrms, 10 cm, avg 0.8, 1.0, 1.5, 2.0 kHz, 1 cc box	97	100	103	dB
distortion	at 800~8 kHz, rated power, 10 cm in 1 cc box			5	%
buzz, rattle, etc.	must be normal at sine wave, frequency range in 1 cc box			2.83	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	18 x 13 x 4.5				mm
magnet	Nd-Fe-B				
frame material	PPA				
cone material	PEEK				
terminal	spring contacts				
weight			2.8		g
operating temperature		-20		70	°C
storage temperature		-40		85	°C
RoHS	yes				
IP level	IPX8 (front side)				

Notes: 1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

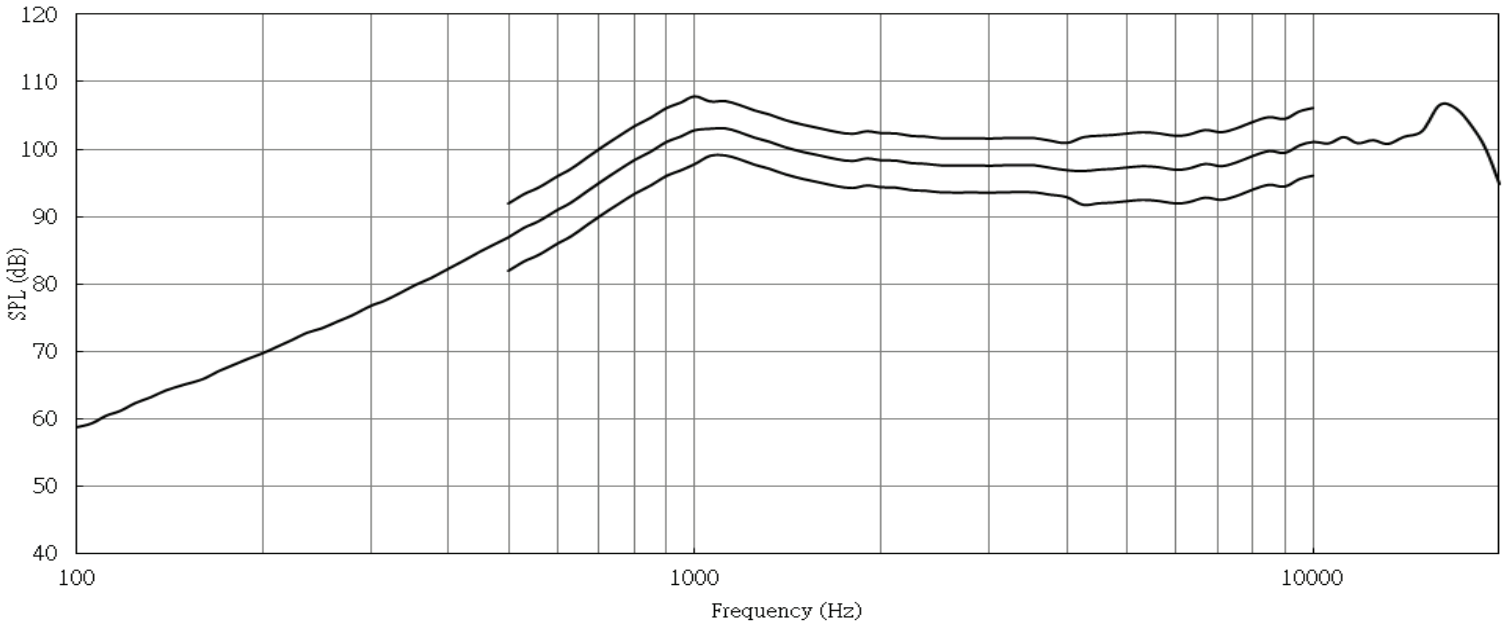


Recommended PCB Layout
Top View

RESPONSE CURVES

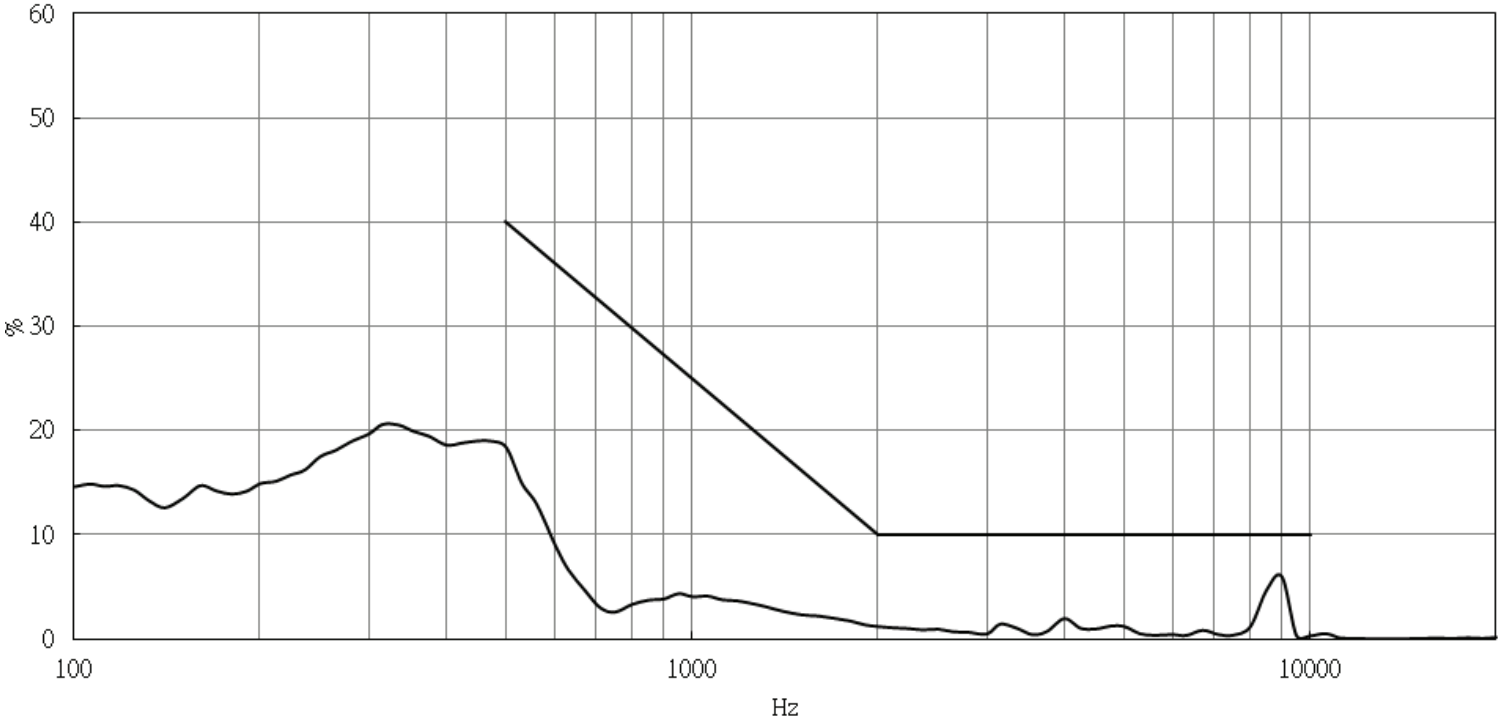
Frequency Response Curve

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



Total Harmonic Distortion Curve

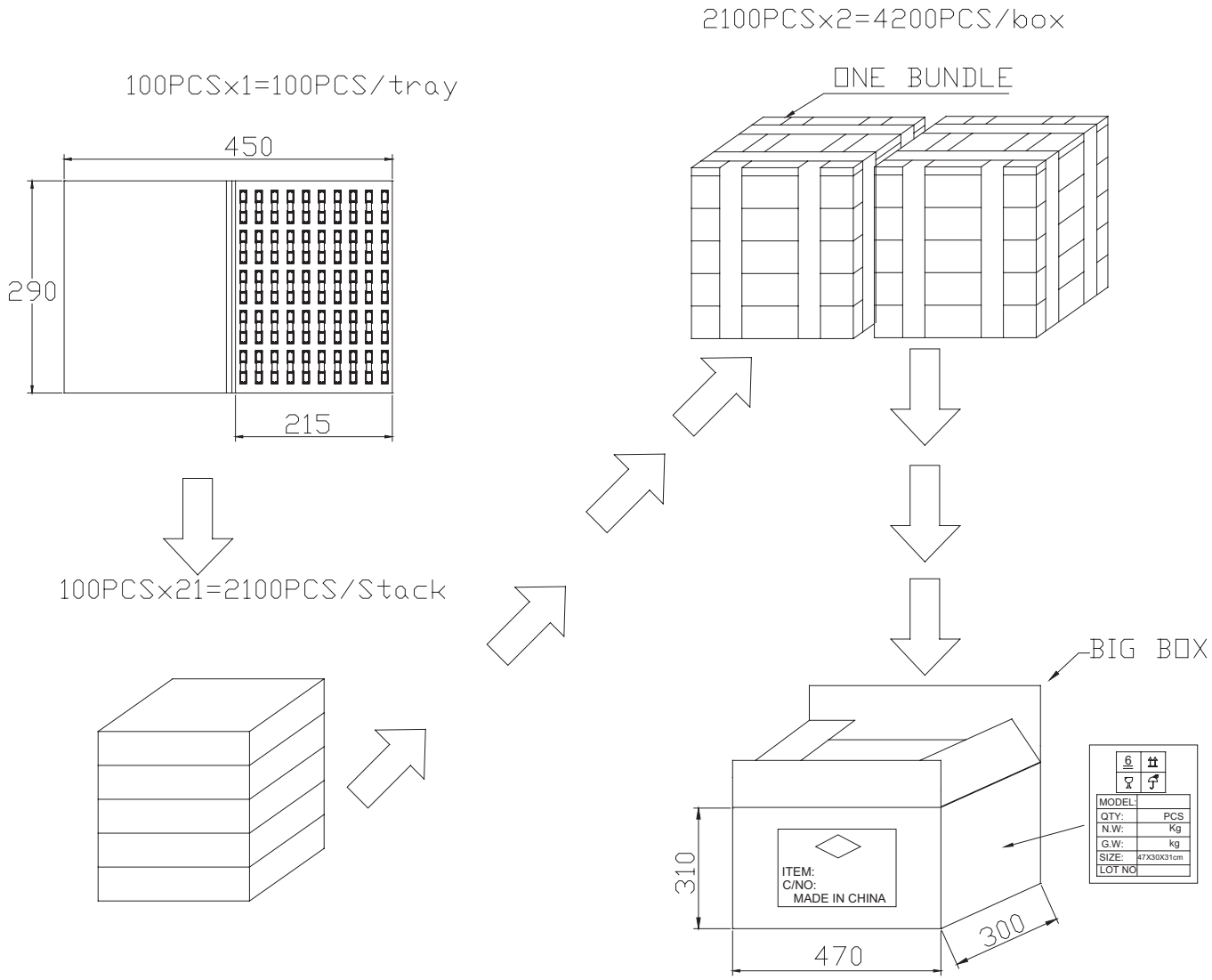
Test Conditions: 2.83 Vrms / 10 cm in 1 cc box



PACKAGING

units: mm

Tray QTY: 100 pcs per tray
Carton Size: 470 x 300 x 310 mm
Carton QTY: 4,200 pcs per carton



REVISION HISTORY

rev.	description	date
1.0	initial release	03/22/2023

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

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