

MODEL: CMS-160916A-SP | **DESCRIPTION:** SPEAKER**FEATURES**

- micro-speaker
- small footprint
- low profile
- spring leads

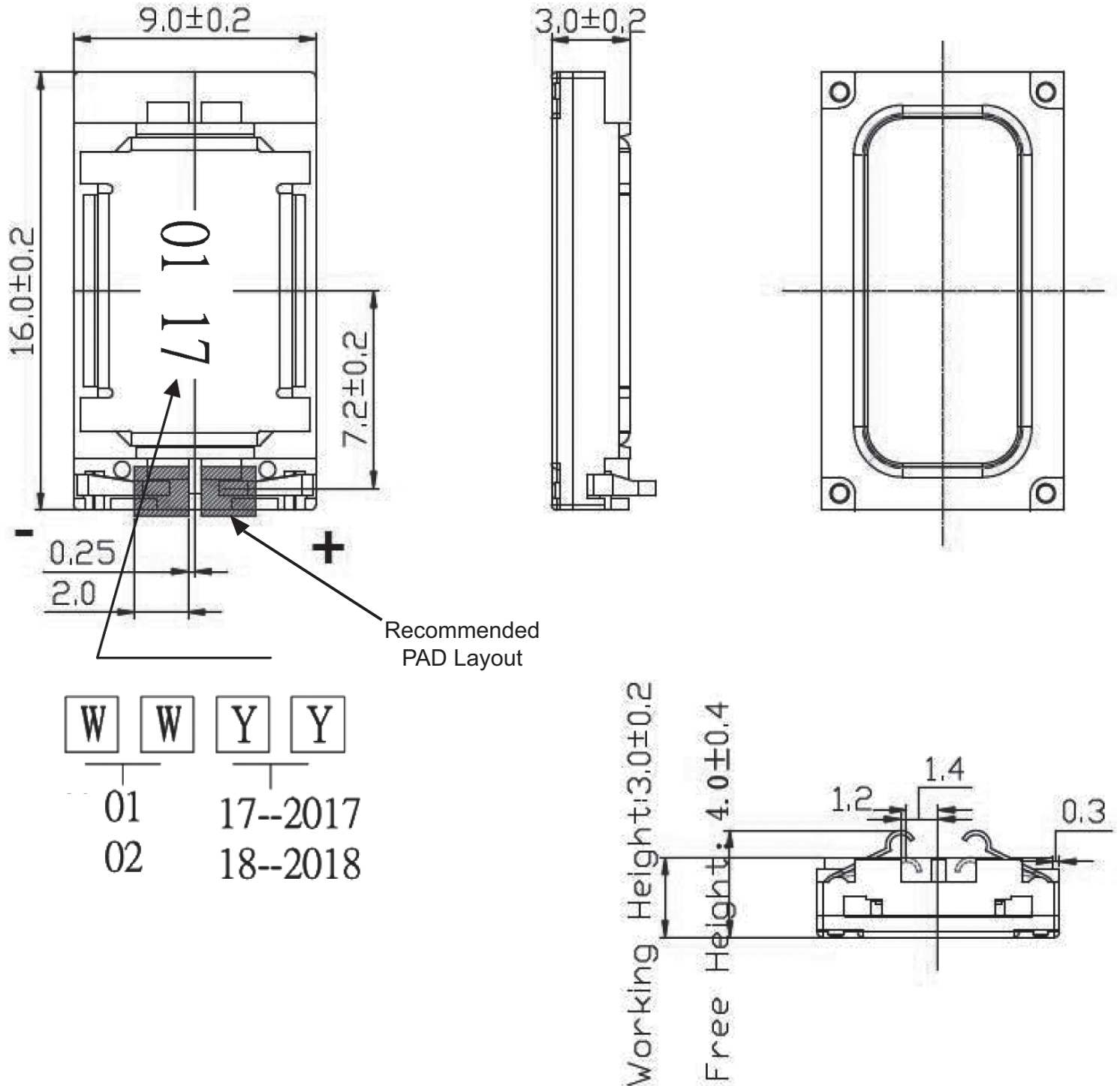
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp in 1 cc closed box		0.8	1.0	W
impedance	at 2.0 kHz	5.1	6	6.9	Ω
resonant frequency (Fo)	at 1.0 V	552.5	650	747.5	Hz
	at 1.0 V in 1 cc closed box	765	900	1,035	Hz
frequency response	output SPL ± 10 dB	Fo		20,000	Hz
sound pressure level	at 0.8 W, 0.1 m, at 2.0 kHz in 1 cc closed box	85	88	91	dB
distortion	at 1.0 kHz, 0.8 W			15	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz in 1 cc closed box		2.2		V
polarity	cone will move forward with positive dc current to "+" terminal				
dimensions	16 x 9.0 x 3.0				mm
magnet	Nd-Fe-B				
material	PBT				
cone material	PEEK				
terminal	spring contact				
weight			1.0		g
operating temperature		-20		75	$^{\circ}\text{C}$
storage temperature		-30		85	$^{\circ}\text{C}$
RoHS	yes				

Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

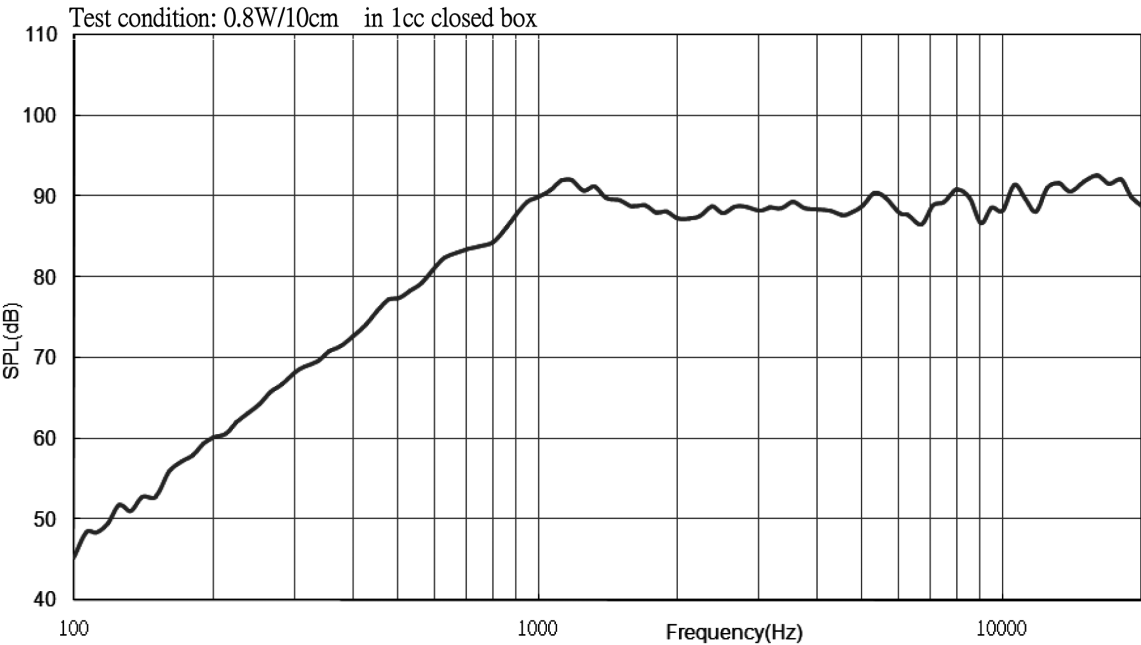
units: mm
tolerance: ± 0.2 mm



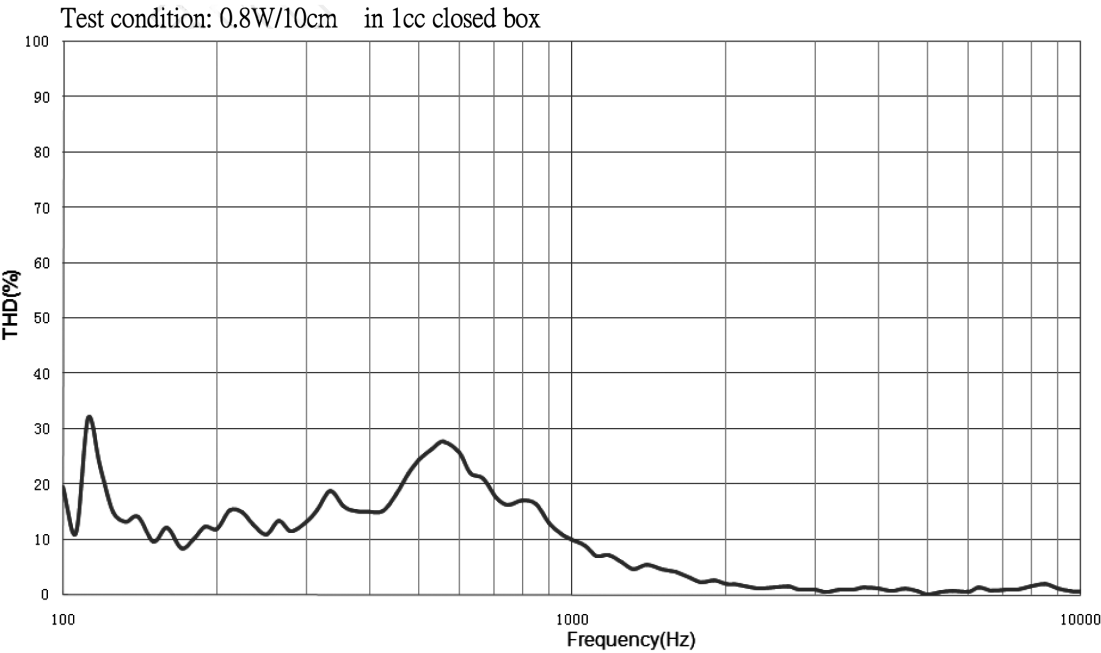
Note: 1. Maximum compression force between front frame and back frame 8 yoke is 5 N.

RESPONSE CURVES

Frequency Response Curve



Total Harmonic Distortion Curve



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.275
Electrical Q Factor	Qes	7.49
Total Q Factor	Qts	1.745
Compliance Equivalent Volume	Vas	0.0007

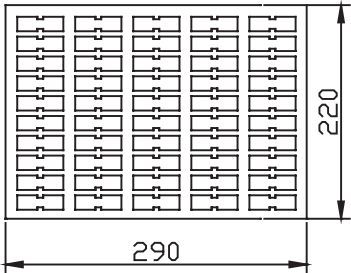
Notes: 2. Results represent typical performance in Free Air conditions.

PACKAGING

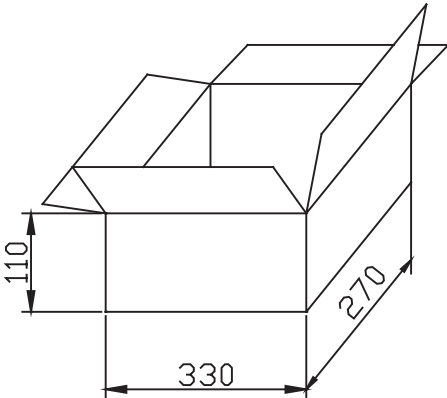
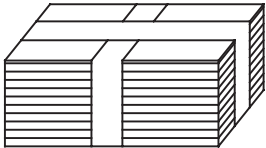
units: mm

Tray Size: 290 x 220 mm
Carton Size: 590 x 350 x 290 mm
Tray QTY: 100 pcs per tray
Carton QTY: 5,000 pcs per carton

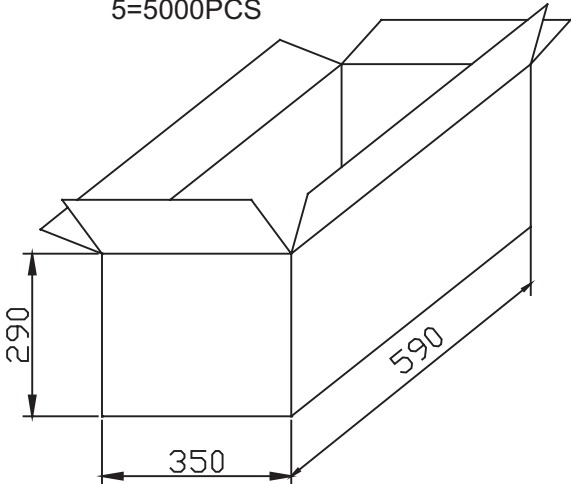
100PCS



100 %
10=1000PCS



1000 %
5=5000PCS



Lot No.	XXXXXXXXXX
Part No.	Inv#. Part#.
Quantity.	XXXX Pcs
Date:	DD MM YY
	MADE IN CHINA

RoHs Compliant

REVISION HISTORY

rev.	description	date
1.0	initial release	07/06/2017
1.01	updated packaging	12/17/2019
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024
1.04	added Thiele-Small Parameters	02/18/2025

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



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