

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

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

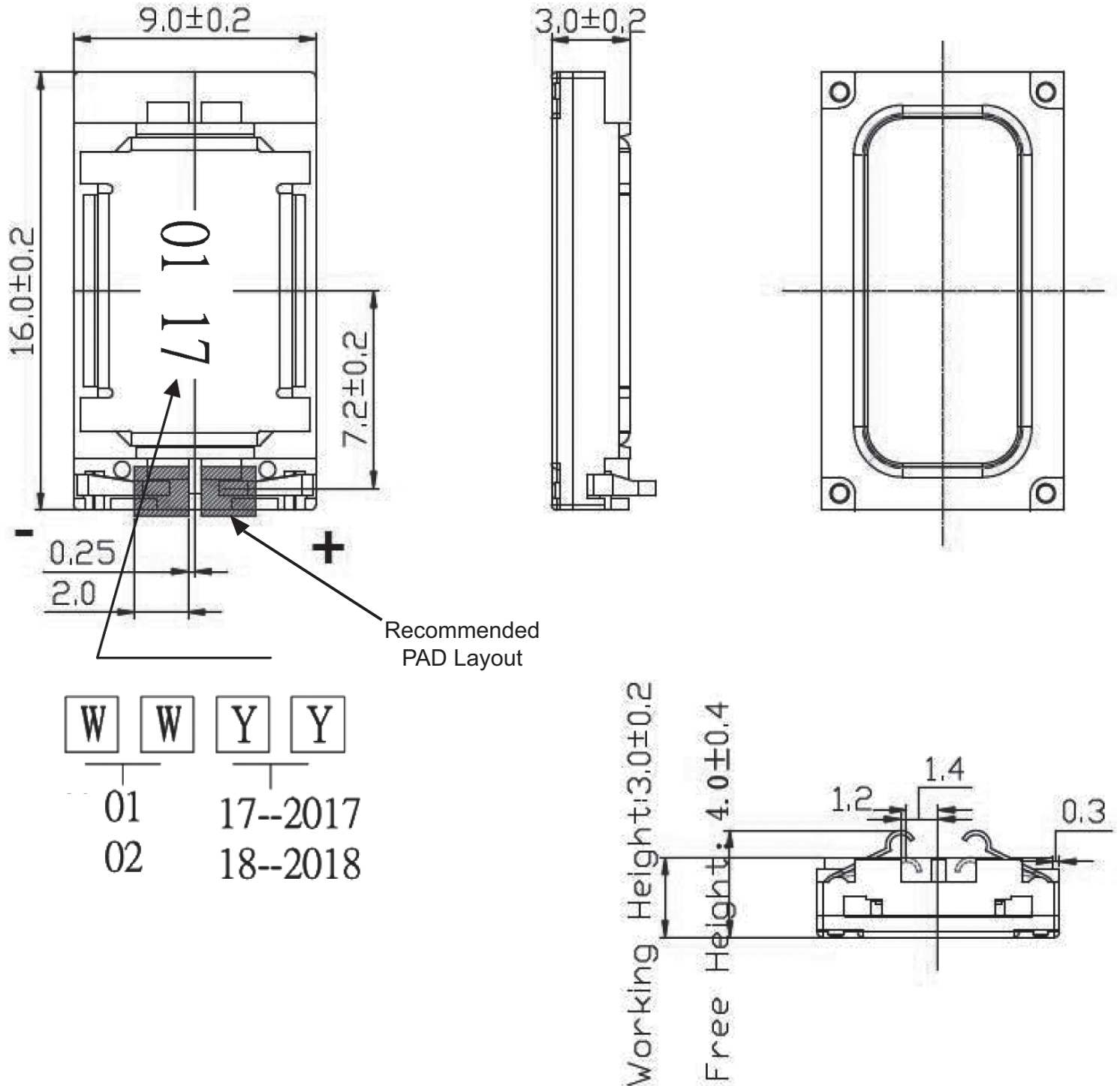
**SPECIFICATIONS**

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.

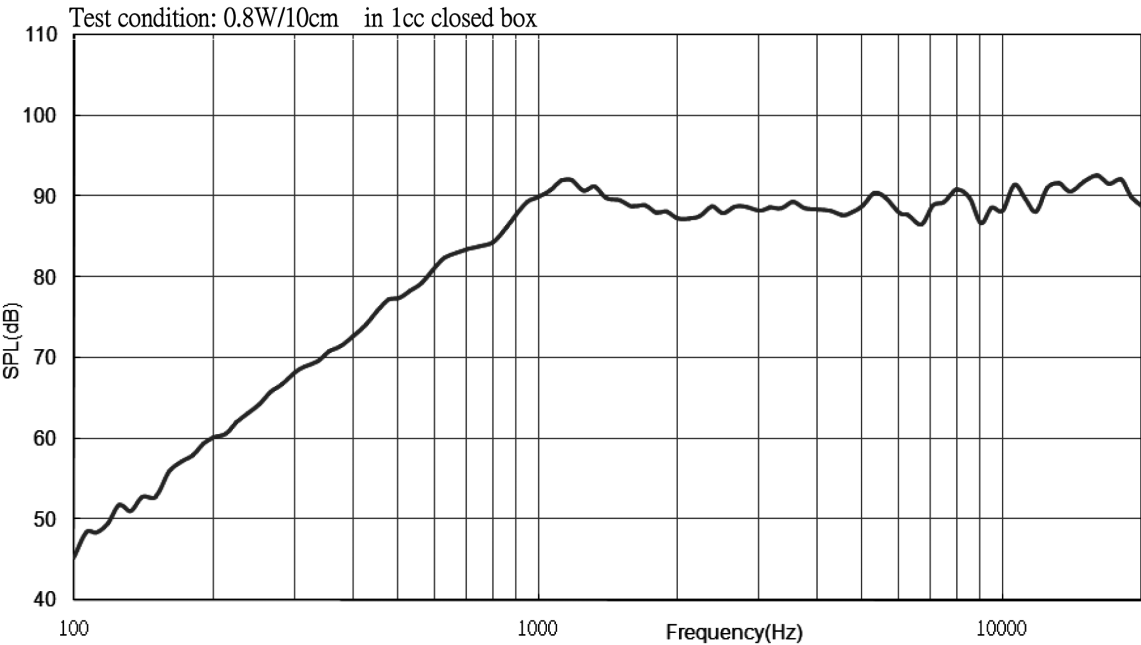
MECHANICAL DRAWING

units: mm
tolerance: ± 0.2 mm

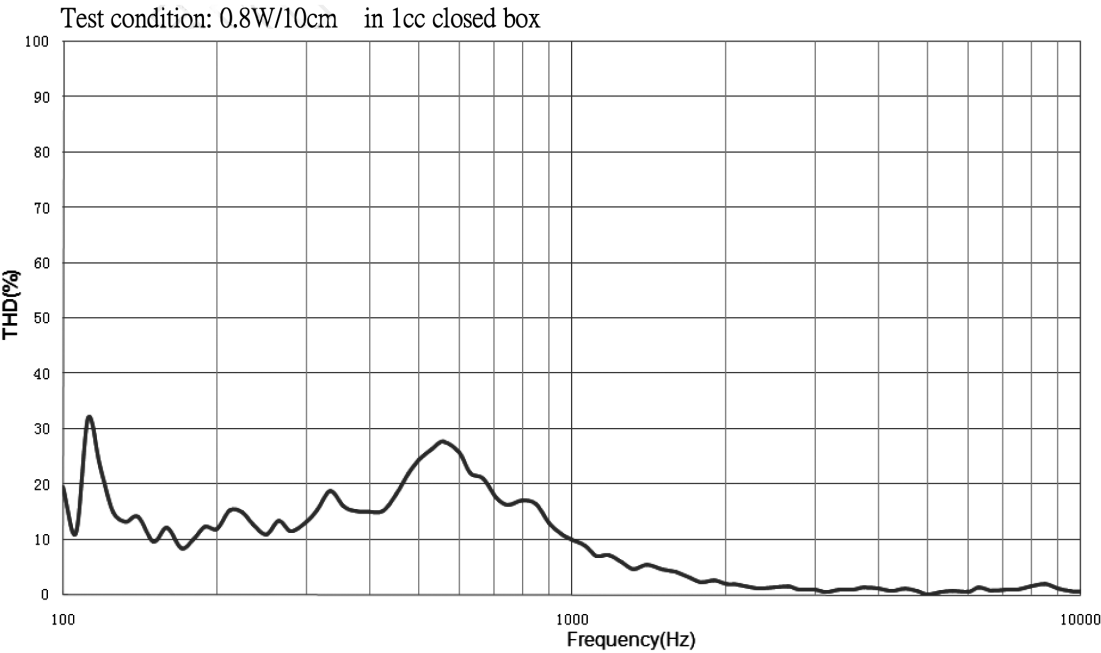


RESPONSE CURVES

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

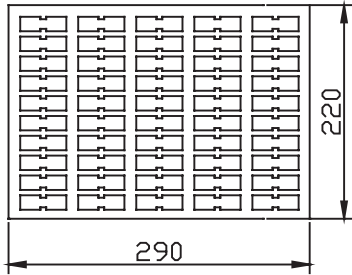
Notes: 2. Results represent typical performance in Free Air conditions.

PACKAGING

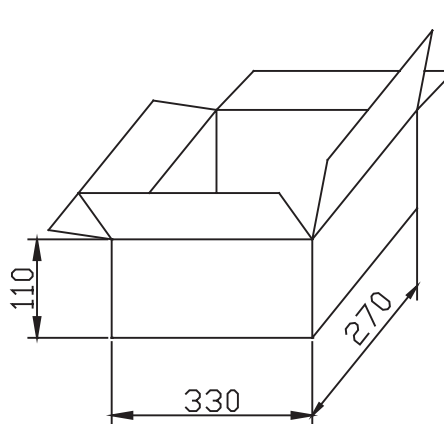
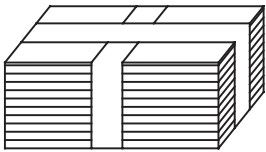
units: mm

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

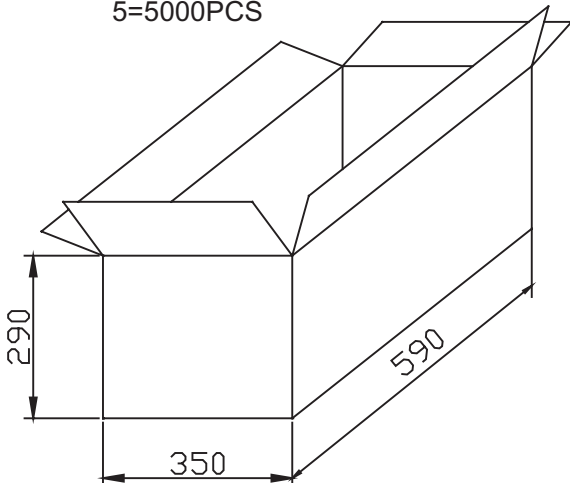
100PCS



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.



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

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

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.

sameskydevices.com