CUI Devices is now Same Sky! Learn More

MODEL: CMS-2844-058SP | DESCRIPTION: SPEAKER

FEATURES

- 8 ohm
- rated 0.5 W
- solder pads

RoHS

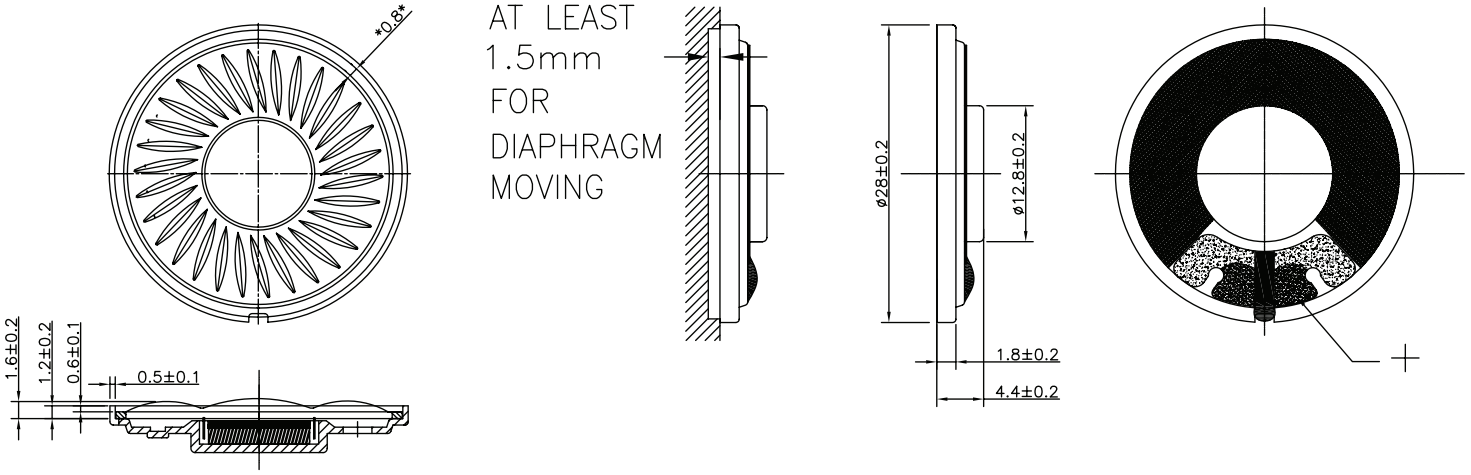
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power			0.5	1	W
impedance		6.8	8	9.2	Ω
resonant frequency (Fo)		312	390	468	Hz
frequency response		250		20,000	Hz
sound pressure level	at 0.5 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz	79	82	85	dB
distortion	at 1.0 kHz, 0.5 W, 50 cm			5	%
buzz, rattle, etc.	must be normal at sine wave, frequency range			2.0	V
polarity	cone moves forward w/ positive dc current to “+” terminal				
dimensions	Ø28 x 4.4				mm
magnet	Nd-Fe-B				
frame material	iron				
cone material	PEI				
terminal	solder pads				
weight			5.3		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

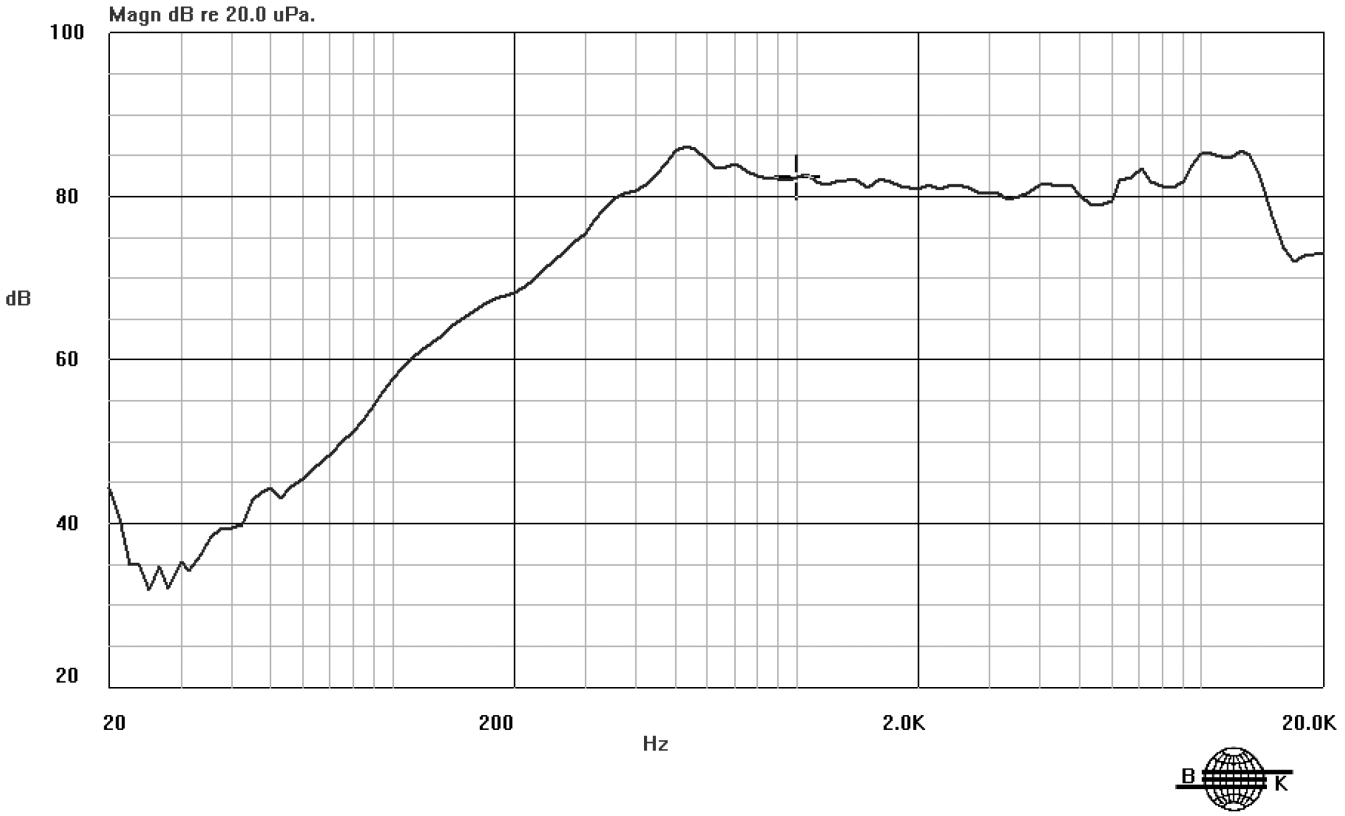
units: mm
tolerance: ±0.2 mm



RESPONSE CURVES

Frequency Response Curve

Test Conditions: 2 V / 50 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	3.25
Electrical Q Factor	Qes	4.862
Total Q Factor	Qts	1.948
Compliance Equivalent Volume	Vas	0.0017

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.

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.