

**MODEL:** CMS-405-158N-67 | **DESCRIPTION:** SPEAKER**FEATURES**

- 8 ohm rated impedance
- 1.5 W rated power
- IP67 rated

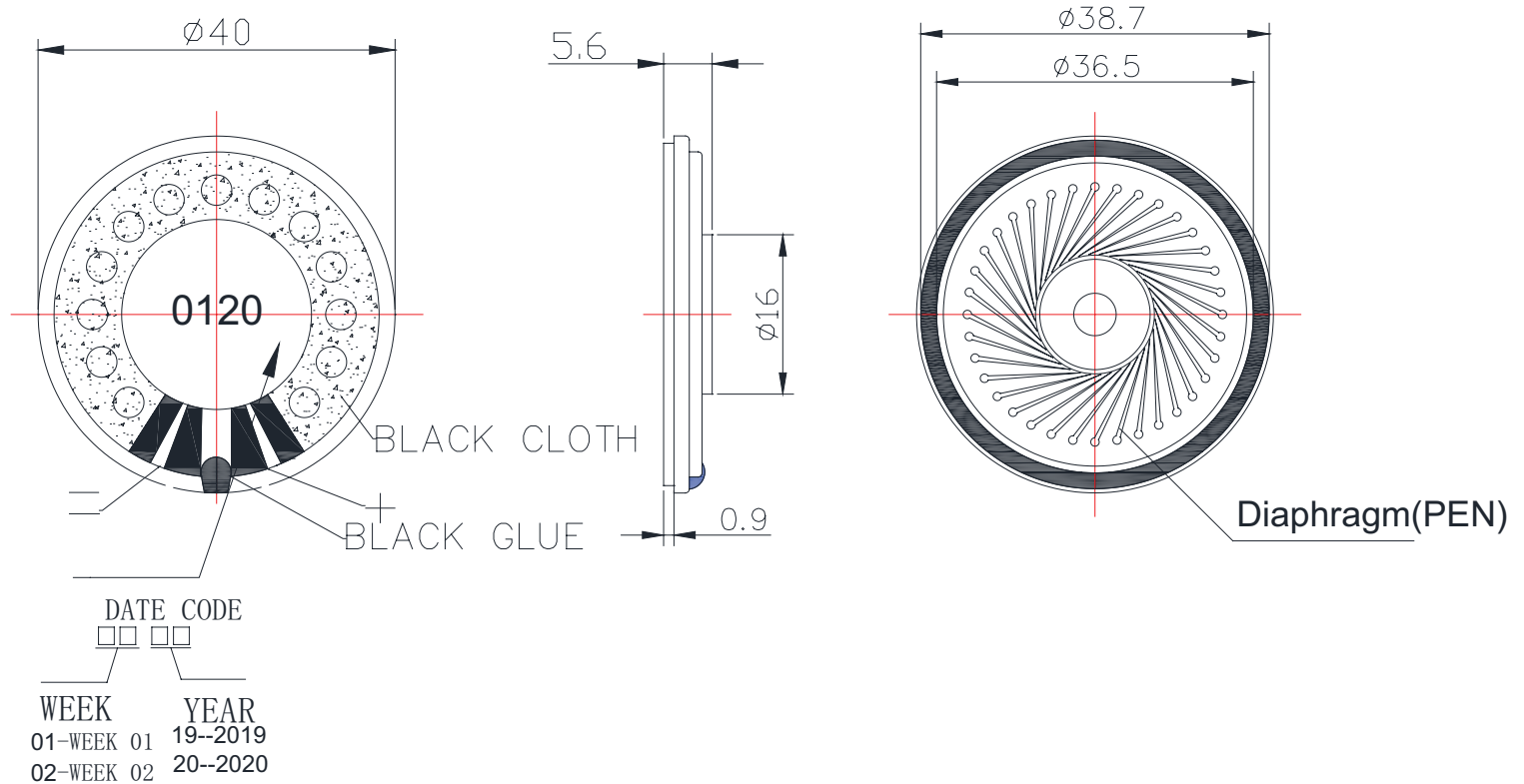
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	IEC-60268-5, filter 60 seconds on, 120 seconds off, 10 cycles (room temp)		1.5	2.0	W
impedance	at 2.0 kHz, 1.0 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	680	850	1,020	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 1.5 W, 10 cm, avg at 2.0 kHz	100	103	106	dB
distortion	at 1.0 kHz, rated power, 10 cm			10	%
buzz, rattle, etc.	must be normal at sine wave, Fo~8 kHz			3.46	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	$\varnothing 40 \times 5.6$				mm
magnet	Nd-Fe-B				
frame material	SPCC				
cone material	PEN				
terminal	solder pads				
weight			8.5		g
operating temperature		-20		60	$^{\circ}\text{C}$
storage temperature		-30		70	$^{\circ}\text{C}$
hand soldering	for maximum 3 seconds	370	380	390	$^{\circ}\text{C}$
RoHS	yes				
IP level	IP67 (front side)				

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

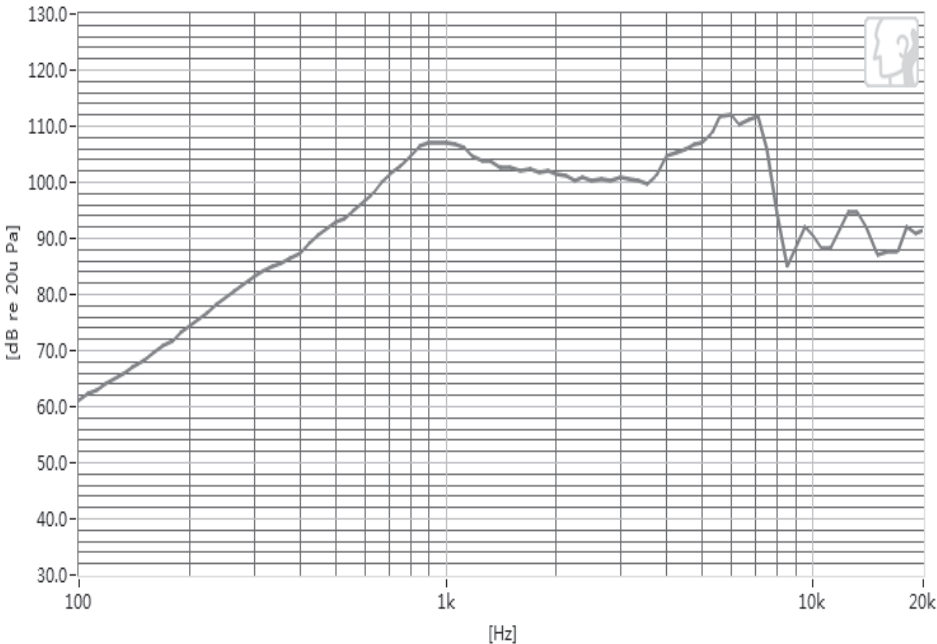
units: mm
tolerance: ± 0.5 mm



RESPONSE CURVES

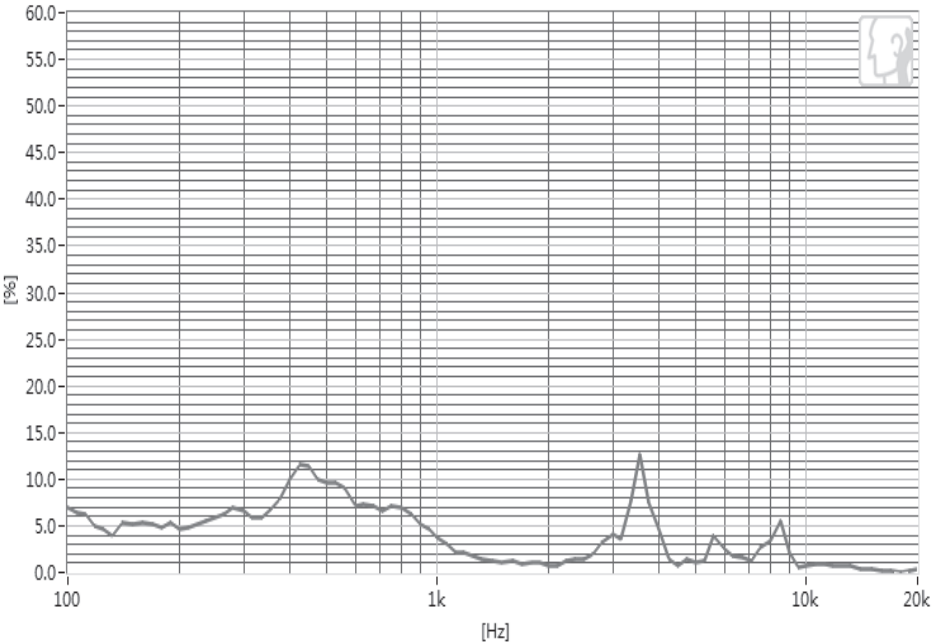
Frequency Response Curve

Test Conditions: 1.5 W / 10 cm



Total Harmonic Distortion Curve

Test Conditions: 1.5 W / 10 cm



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	2.983
Electrical Q Factor	Qes	15.535
Total Q Factor	Qts	2.502
Compliance Equivalent Volume	Vas	0.0505

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

REVISION HISTORY

rev.	description	date
1.0	initial release	06/08/2020
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/11/2024
1.03	added Thiele-Small Parameters	02/04/2025

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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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.

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