CUI Devices is now Same Sky! Learn More

MODEL: CMSM-3116-34 | DESCRIPTION: SPEAKER

FEATURES

- compatible with IEC 60601 applications
- IP67 rated
- solder eyelets
- 98 dB @ 3 W/0.1 m

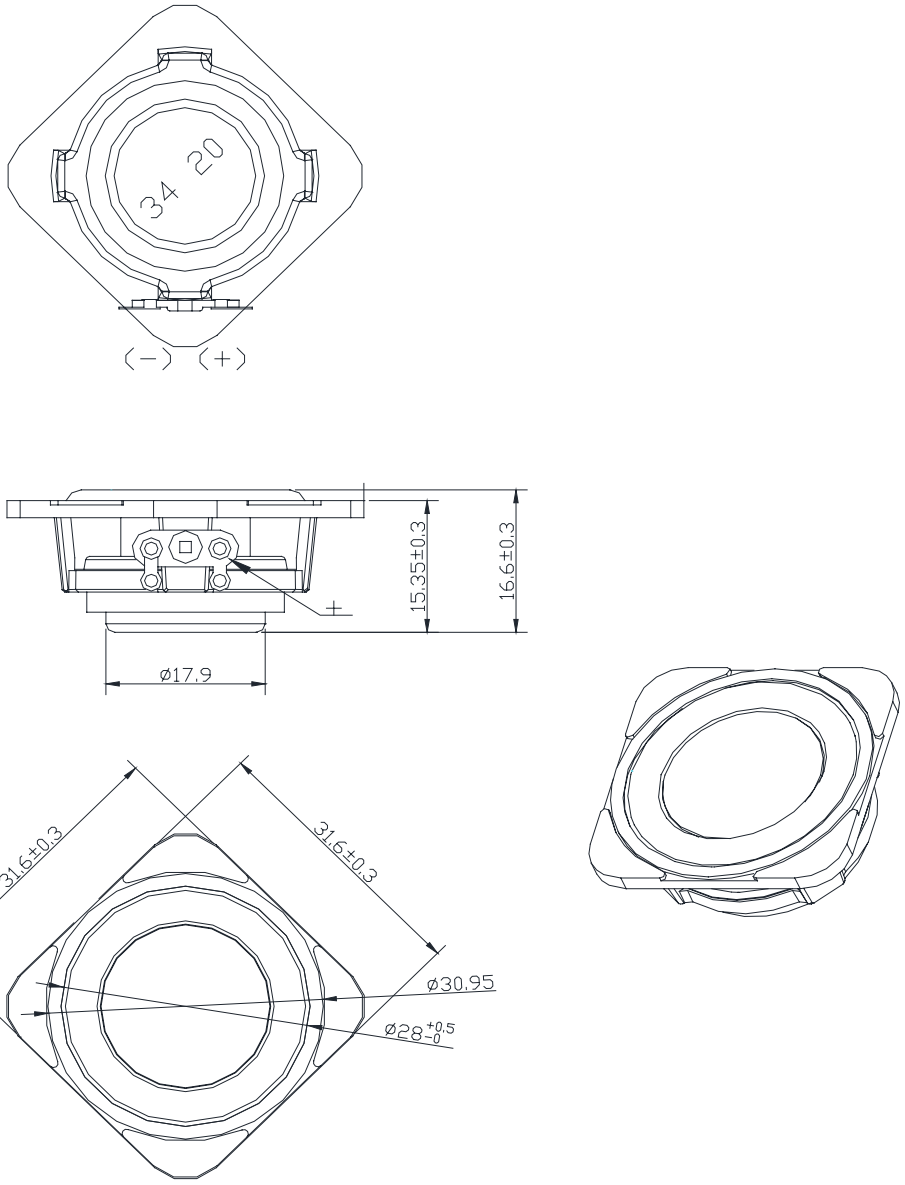
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
input power	max power: IEC-60268-5, filter 60 s on/120 s off, 10 cycles at room temp		3.0	3.5	W
impedance	at 2.0 kHz 1.0 V	3.4	4	4.6	Ω
resonant frequency (Fo)	at 1.0 V	224	280	336	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 3.0 W, 0.1 m, avg at 0.6, 0.8, 1.0, 1.2 kHz	95	98	101	dB
distortion	at 1.0 kHz, rated power			5	%
buzz, rattle, etc.	must be normal at sine wave, frequency range Fo~5 kHz			3.45	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	31.6 x 31.6 x 15.35				mm
magnet	Nd-Fe-B				
frame material	ABS777				
cone material	rubber+AL				
terminal	solder eyelets				
weight			15		g
operating temperature		-25		85	°C
storage temperature		-25		85	°C
hand soldering	for maximum 3 seconds	370	380	390	°C
RoHS	yes				
IP level	IP67 (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

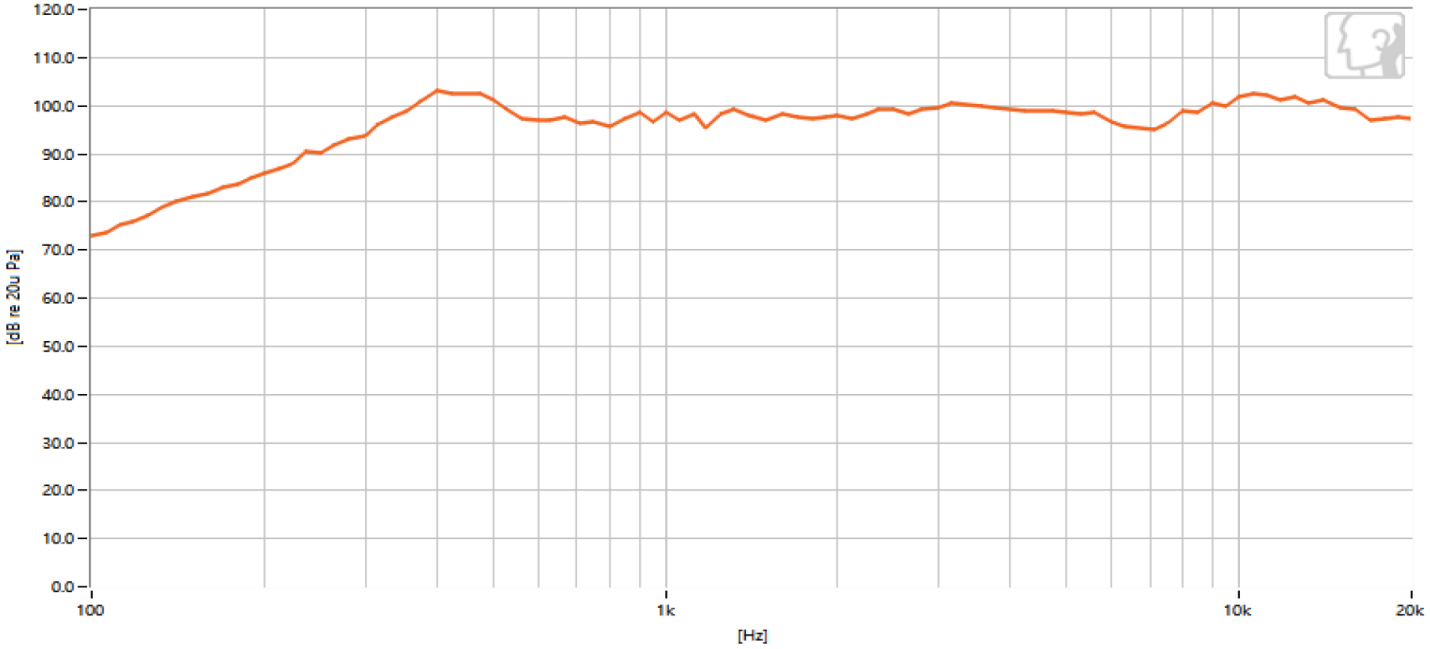
units: mm
tolerance: ±0.5 mm



RESPONSE CURVES

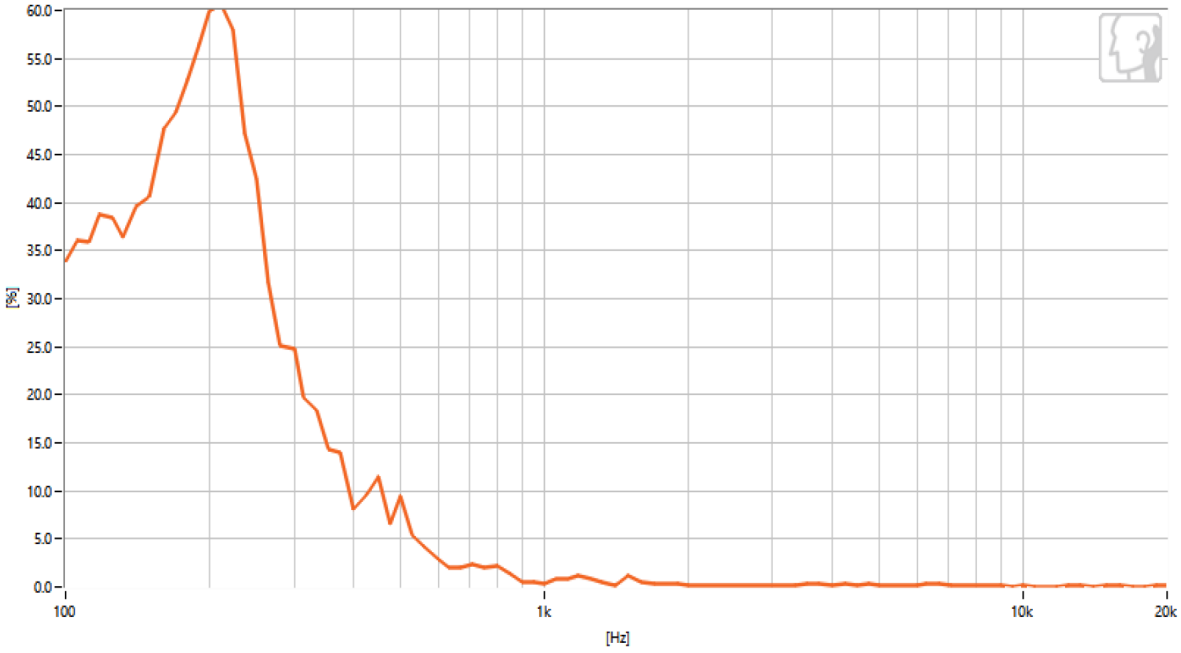
Frequency Response Curve

Test Conditions: 3.0 W / 0.1 m



Total Harmonic Distortion Curve

Test Conditions: 3.0 W / 0.1 m



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	4.62
Electrical Q Factor	Qes	2.946
Total Q Factor	Qts	1.799
Compliance Equivalent Volume	Vas	0.0159

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

REVISION HISTORY

rev.	description	date
1.0	initial release	01/03/2024
1.01	CUI Devices rebranded to Same Sky	09/11/2024
1.02	added Thiele-Small Parameters	02/05/2024

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.