

**SERIES:** CMR-2353X-2032SP | **DESCRIPTION:** RECEIVER**FEATURES**

- dynamic receiver
- solder pads

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	max power: 1 minute on, 2 minutes off, 10 cycles		20	30	mW
impedance	at 1.0 kHz, 1 mW	25.6	32	38.4	Ω
resonant frequency [Fo]	at 0.179 V, 1 mW in free air, 24~27°C (for reference only)	352	440	528	Hz
frequency response		20		3,400	Hz
sound pressure level	at 1 mW, 1.0 kHz, with IEC318 coupler at 20 mW, 1.0 kHz, with IEC318 coupler	119 132	122 135	125 138	dB dB
distortion	see THD curve				
buzz, rattle, etc.	must be normal at sine wave, 20 Hz~3.5 kHz			0.8	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	Ø23 x 5.3				mm
magnet	Nd-Fe-B				
frame material	ABS				
cone material	PET				
terminal	solder pads				
weight			3.3		g
operating temperature		-20		60	°C
storage temperature		-20		60	°C
hand soldering	for 3~5 seconds	370	380	390	°C
RoHS	yes				

Notes: 1. All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

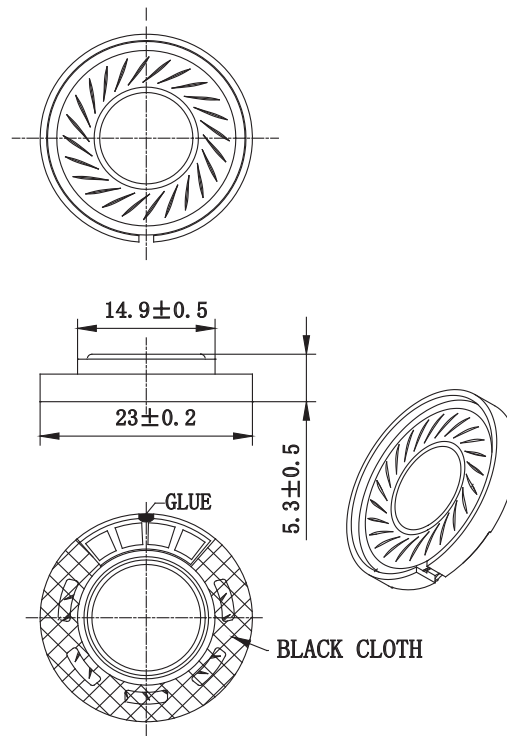
PART NUMBER KEY**CMR - 2353 X - 2032SP**

Base Number

Cover Options:
blank = Cone without grill
G = Cone with grill

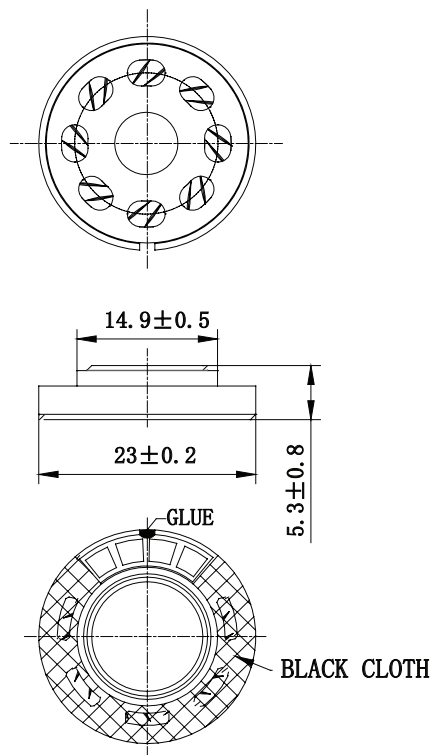
MECHANICAL DRAWING

units: mm
tolerance: ± 0.5 mm



MECHANICAL DRAWING (WITH GRILL)

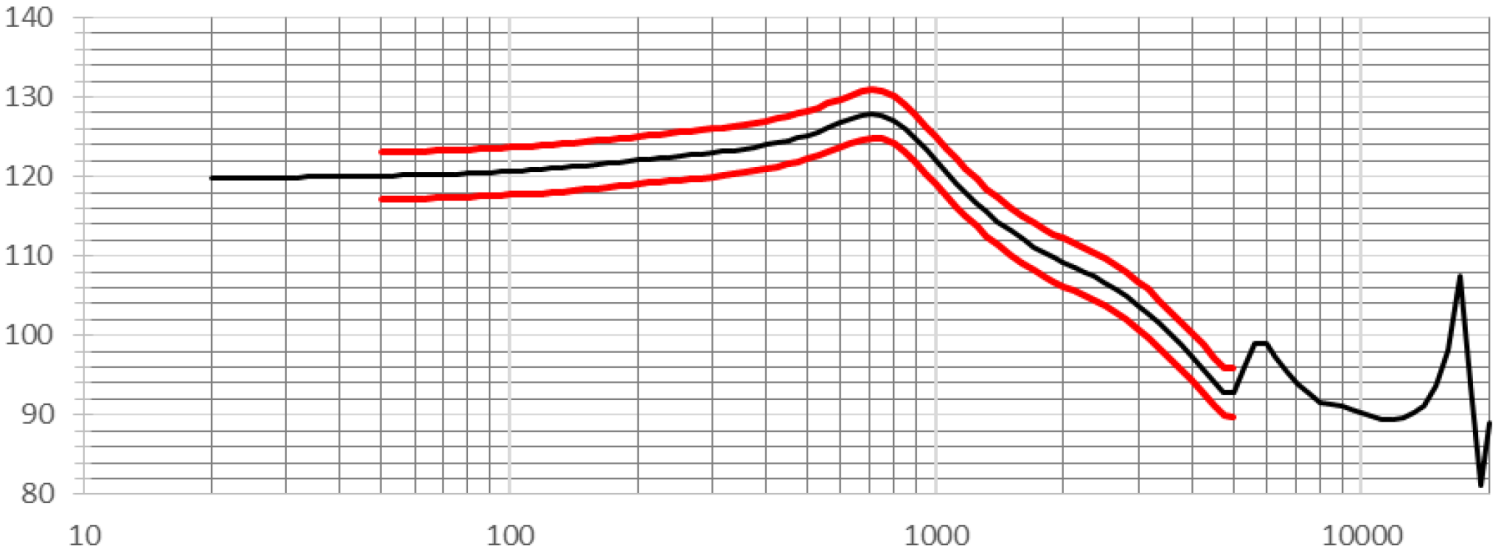
units: mm
tolerance: ± 0.5 mm



RESPONSE CURVES

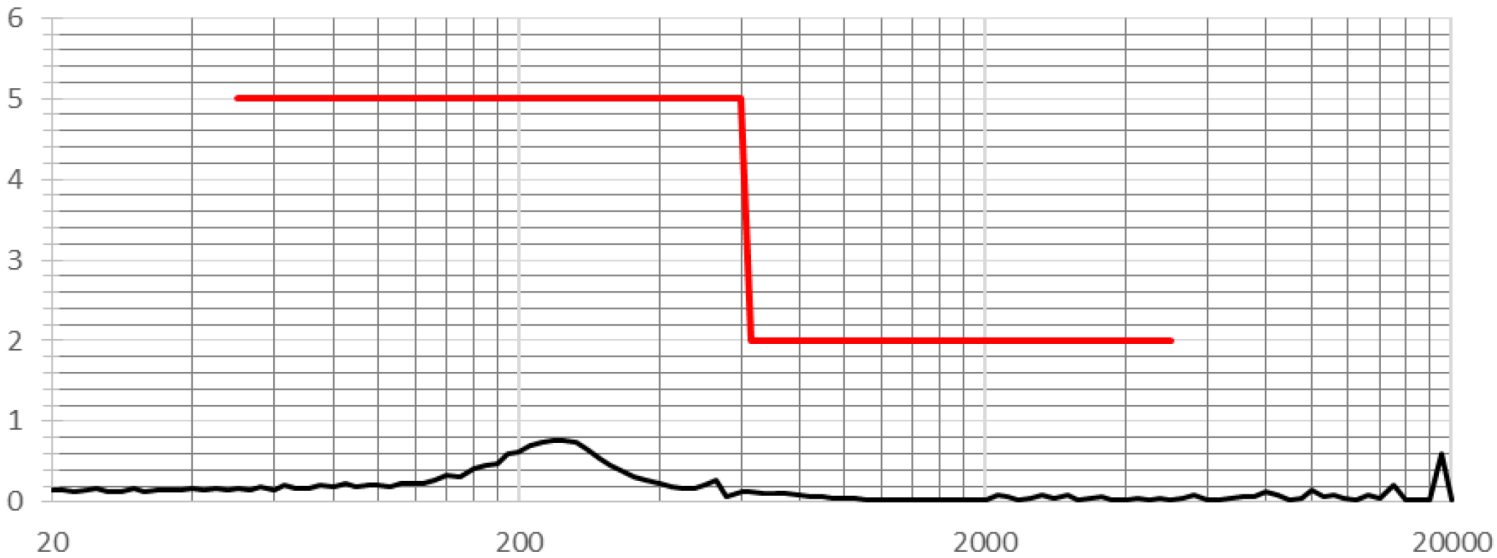
Frequency Response Curve

Test Conditions: IEC318 coupler, 1 mW



Total Harmonic Distortion Curve

Test Conditions: IEC318 coupler, 1 mW



THIELE-SMALL PARAMETERS

parameter	conditions/description	typ
Mechanical Q Factor	Qms	3.051
Electrical Q Factor	Qes	1.771
Total Q Factor	Qts	1.12
Compliance Equivalent Volume	Vas	0.1067

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

REVISION HISTORY

rev.	description	date
1.0	initial release	12/20/2023
1.01	updated datasheet	05/20/2024
1.02	CUI Devices rebranded to Same Sky	09/12/2024
1.03	added cone with grill option, added Thiele-Small Parameters	04/02/2025

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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