

**MODEL:** CMS-2053-18SP | **DESCRIPTION:** SPEAKER**FEATURES**

- 8 ohm
- rated 1.5 W
- solder pads

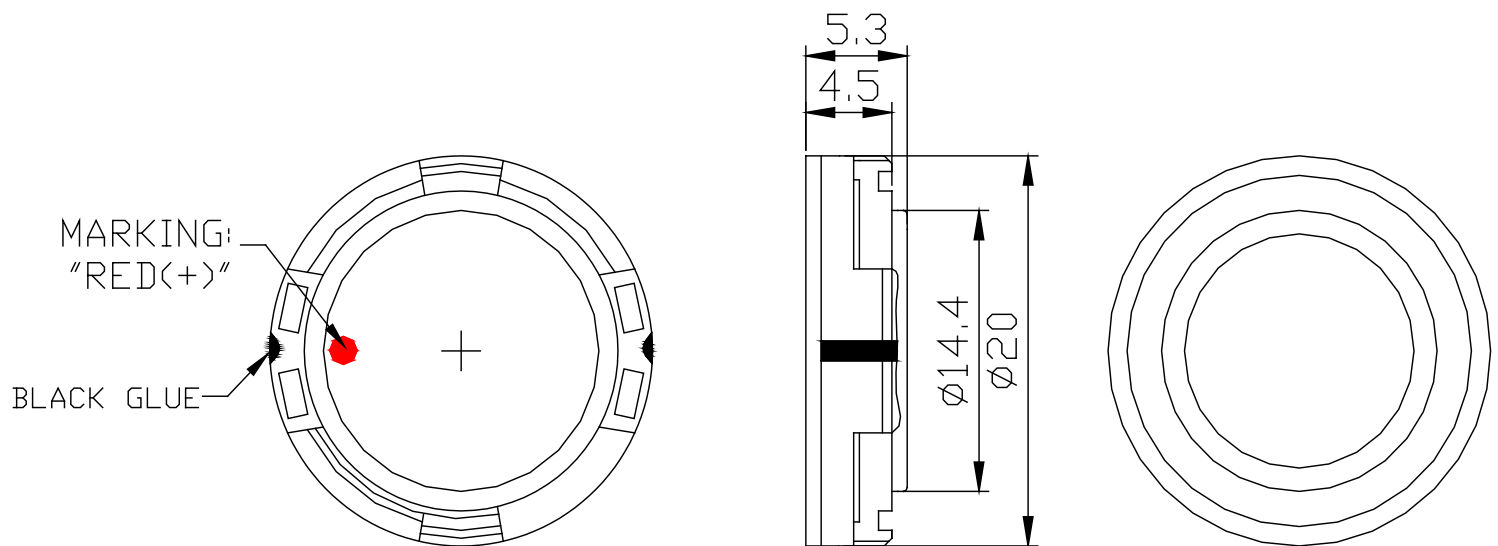
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	max power: 1 minute on, 2 minutes off, 10 cycles		1.5	2.0	W
impedance	at 1 kHz, 1.0 V	6.8	8	9.2	$\Omega$
resonant frequency [Fo]	at 1.0 V	560	700	840	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 1.0 W, 0.5 m, avg at 0.8, 1.0, 1.2, 1.5 kHz	80	83	86	dB
	at 1.5 W, 0.5 m, avg at 0.8, 1.0, 1.2, 1.5 kHz	81.5	84.5	87.5	dB
distortion	at 1.5 W, 1.0 kHz			10	%
buzz, rattle, etc.	must be normal at sine wave, Fo Hz~20 kHz			3.5	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	$\varnothing 20 \times 5.3$				mm
magnet	Nd-Fe-B				
frame material	PBT (black)				
cone material	PU + PBT				
terminal	solder pads				
weight			7.3		g
operating temperature		-20		50	$^{\circ}\text{C}$
storage temperature		-20		60	$^{\circ}\text{C}$
hand soldering	for 3-5 seconds	370	380	390	$^{\circ}\text{C}$
RoHS	yes				

Notes: 1. All specifications measured at 15~35 $^{\circ}\text{C}$ , humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.5$  mm

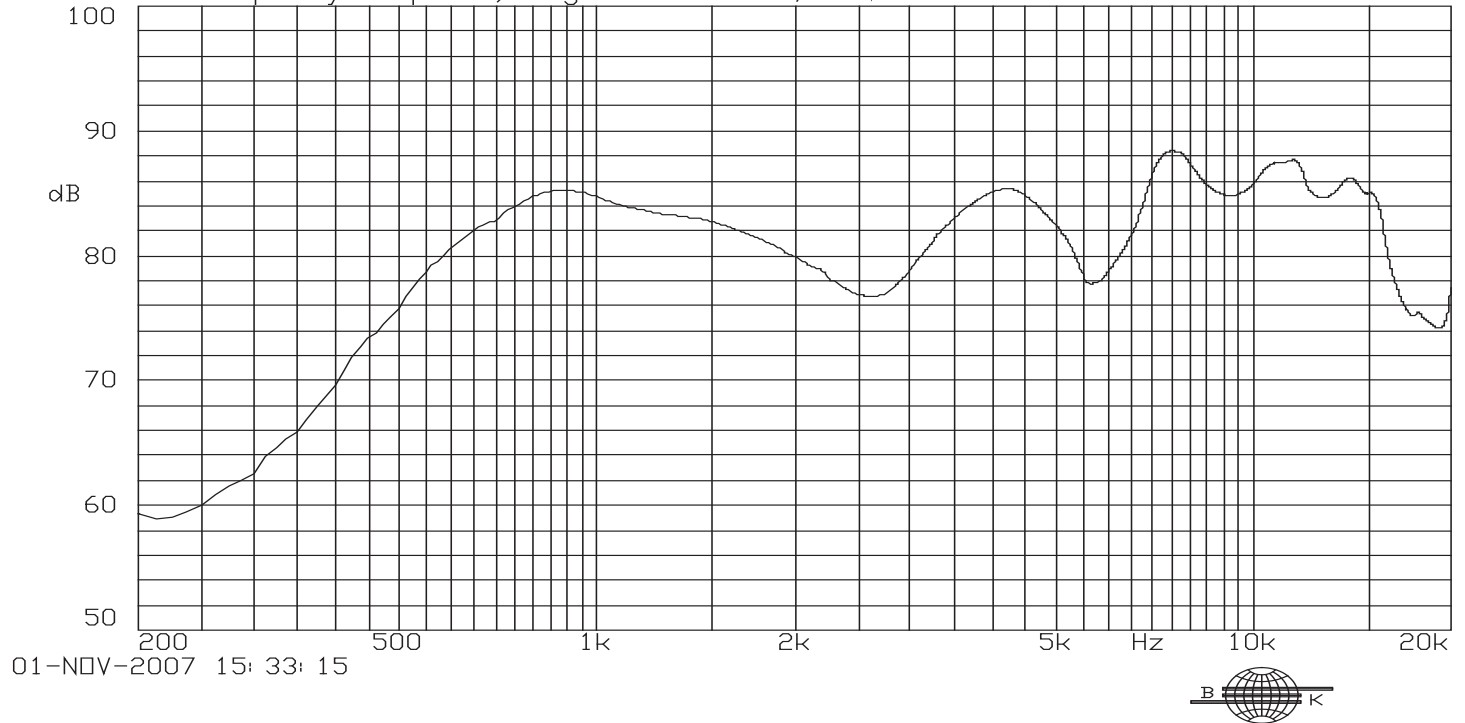


## RESPONSE CURVES

### Frequency Response Curve

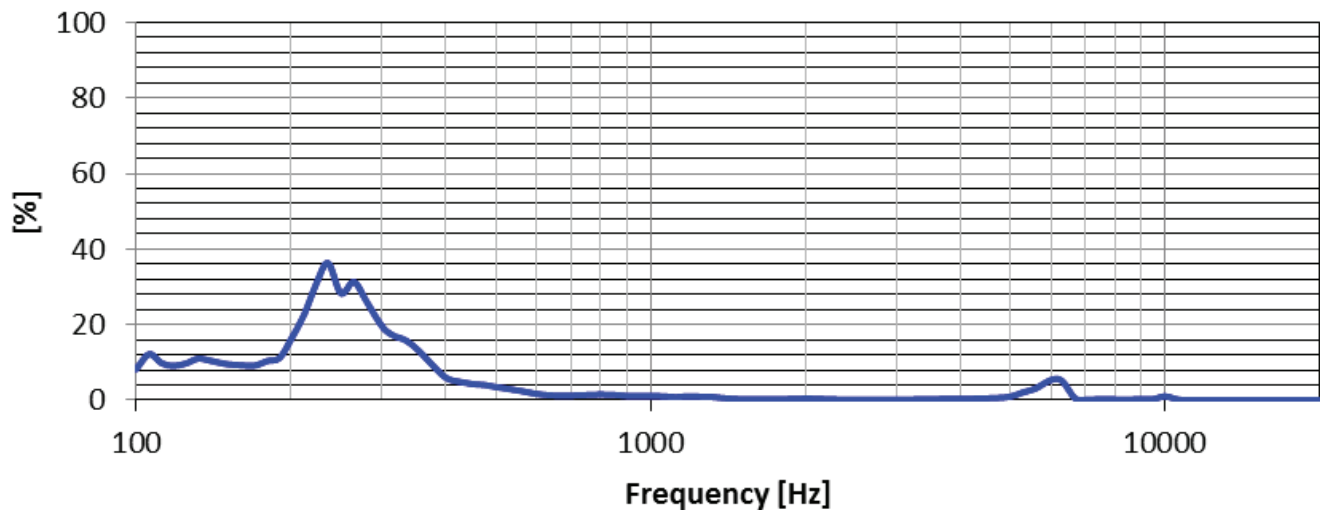
Test Conditions: 1.0 W / 0.5 m

A: Frequency Response, Magn dB re 20.00uPa/V



### Total Harmonic Distortion Curve

Test Conditions: 1.0 W / 0.5 m



## REVISION HISTORY

rev.	description	date
1.0	initial release	12/07/2023

The revision history provided is for informational purposes only and is believed to be accurate.



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