

RoHS
Compliant



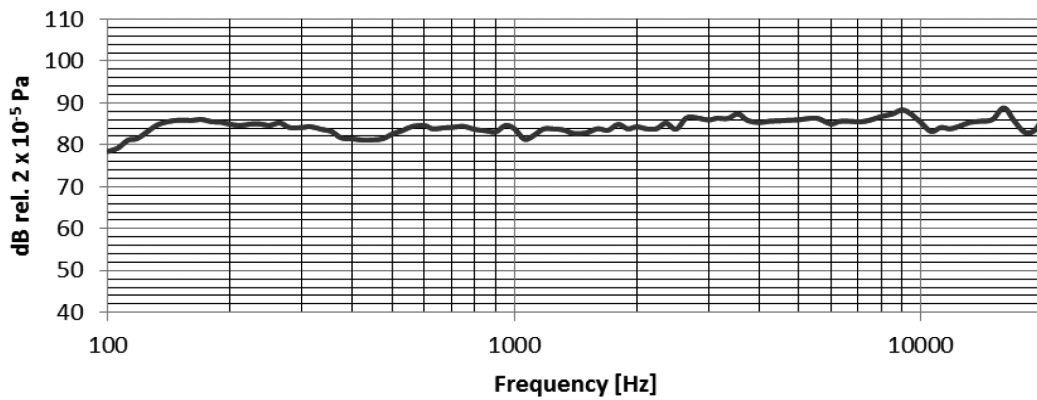
Electrical and Acoustical Specification

Item	Specifications
Dimension	52 × 52 × 31.6
Rated Input Power	5W
Max Input Power	8W (white noise/1min)
Rated Impedance	4 ±15% Ω /(at 1KHz 2V sine wave)
Resonance Frequency (f0)	120 ±20% Hz/2V
Sound Pressure Level	82.5 ±2dB 1.0W/1.0m at AVG From 2KHz to 4KHz (Reference) 103 ±2 dB (1W/0.1M @ open air, Production Box) Average at From 2KHz to 4KHz
Frequency Range	F0Hz ~ 20KHz
Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red, the diaphragm shall move forward
Operation Test	Must be normal at sine wave and program source 5W.
Buzz, Rattle, etc.	Should not be audible at 4.47V sine wave between (F0 Hz ~ 20kHz)
Weight	69g
Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
Magnet	φ19 × 7, NdFeB
Operating temp.	-20°C to +60°C
Storage temp.	-25°C to +70°C

Frequency Response Curve

@ 1W, 1M in Anechoic chamber

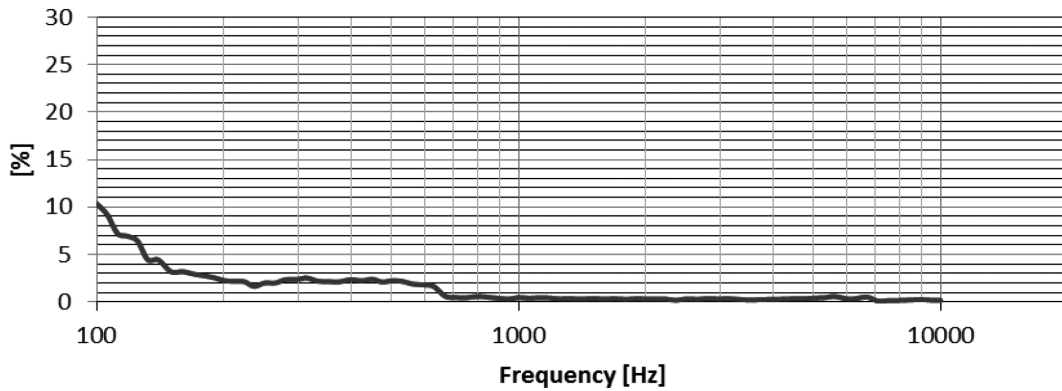
Sound Pressure Level



Distortion Curve

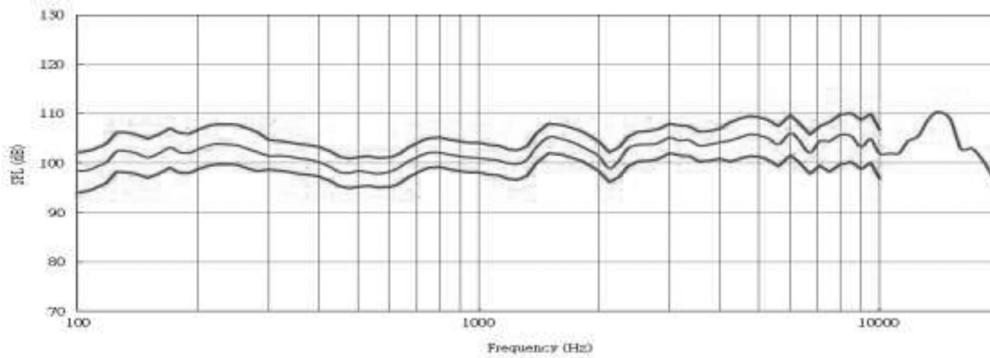
@ 1W, 1M in Anechoic chamber

Distortion



Frequency Response Curve

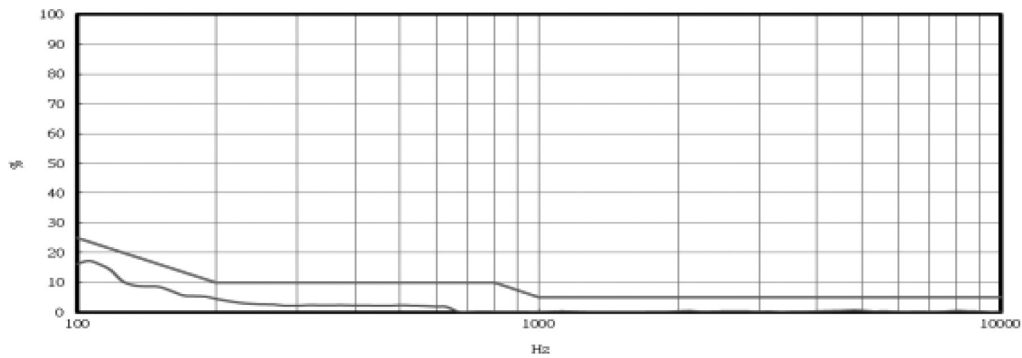
@ 2V, 10cm in Production Line Testing Box



	FR Lower Limit	FR Upper Limit
100-280	-4	+4
300-4000	-3	+3
4250-7100	-4	+4
7500-10000	-5	+5

Distortion Curve

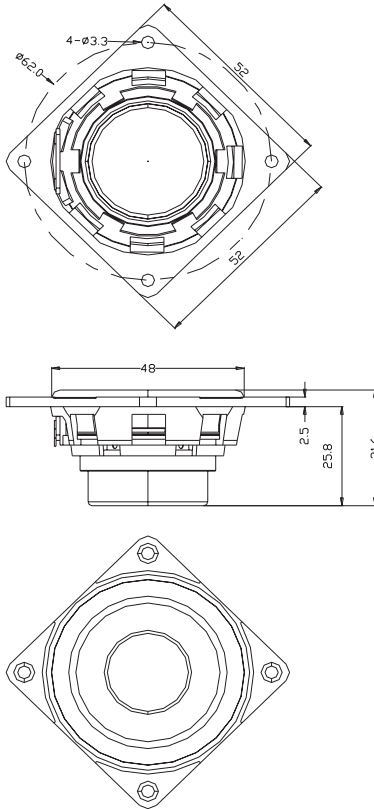
@ 2V, 10cm in Production Line Testing Box



THD Upper Limit	
100	25
200	10
800	10
1000	5
10000	5

Diagram

Unless otherwise specified, tolerance:±0.3



Part Number Table

Description	Part Number
Speaker, 4Ω, 5W, 52mm × 52mm × 31.6mm	MCABS-278-RC

Dimensions : Millimetres

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