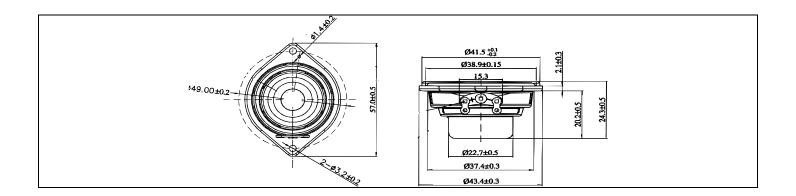


Specification Part Number: TS121038

Description: Loudspeaker (Size: D43mm x H24.3mm)

RoHS Compliant



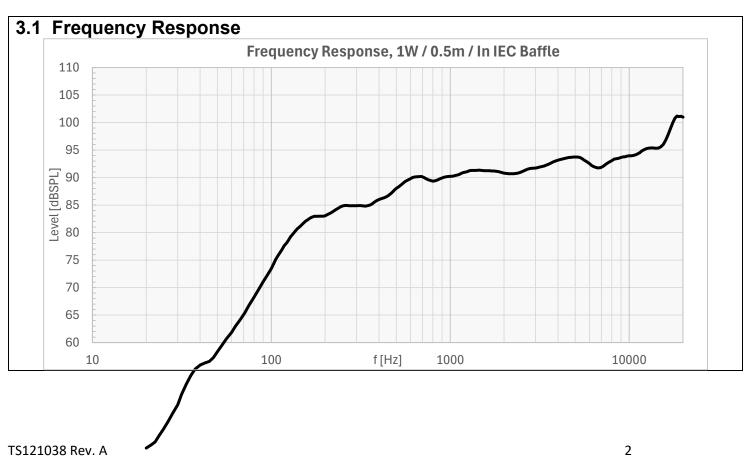
Revision	Date	Comments
Α	March 15, 2024	Released for Production

TS121038 Rev. A 1



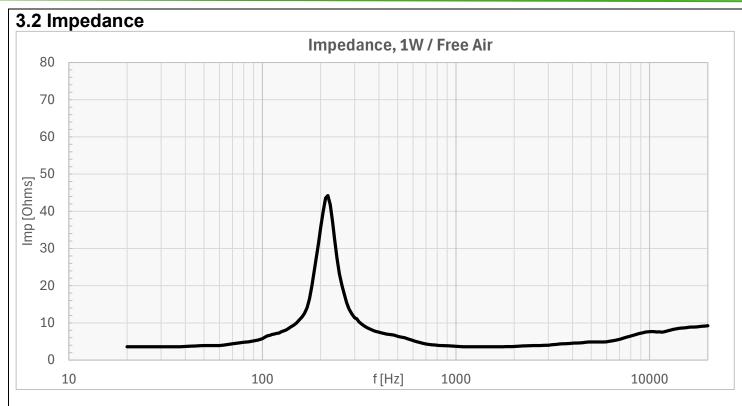
1	General	
1.1	Scope	This specification defines all design requirements for the TS121038 loudspeaker.
1.2	Test Conditions	Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are 5°C~35°C, 25%~85%RH, 860~1060HPA

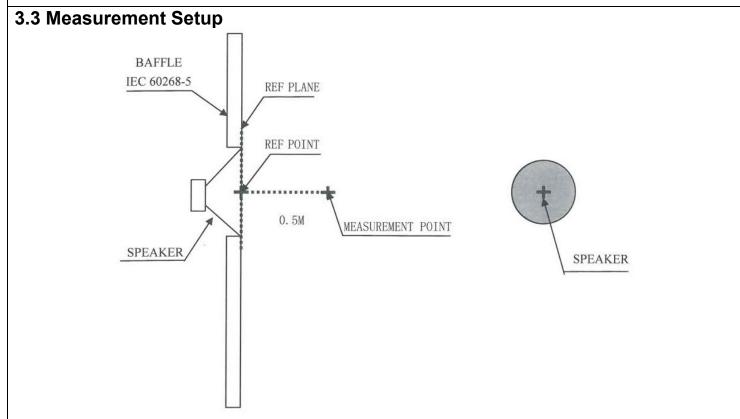
2	Acoustic and Electrical Specifications		
2.1	Nominal Impedance	4Ω	
2.2	DC Resistance	3.6±0.25Ω	
2.3	Resonance Frequency	210±32Hz	At 1.0V
2.4	Output SPL	90±3dBSPL	1W (2V) / 0.5m / 800, 1000, 1250, 1600 Hz Avg
2.5	Rated Input Power	5W	4.47V
2.6	Frequency Response and Deviation	150Hz~20kHz	Output SPL - 10dB
2.7	Buzz and Rattle	No audible buzz or rattle	Sine Wave Sweep at 4.47V / 100Hz~2kHz
2.8	Distortion	5% Max	At 1W (2.0V) / 300Hz~10kHz
2.9	Polarity	When a positive DC current is applied to the voice coil terminal marked +, the diaphragm shall move forward	



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TS121038 Rev. A 3



4	Environmental Characteristics		
4.1	Sweep Test	No buzz or extraneous noises	
		Test Signal:	
		4.47Vrms (5W)	
		Sine wave 100Hz~2kHz in free air	
4.2	Power Test	EIA Pink Noise with 60Hz HP, 100 hours	
4.3	High Temperature Test	96 hours in test chamber at +70±2°C, 20~25%RH, then removed and stored at room temperature for 2 hours	
4.4	Cold Temperature Test	96 hours in test chamber at -40±3°C, then removed and stored at room temperature for 2 hours	
4.5	Humidity Test	96 hours in test chamber at +50±2°C, 91~95%RH, then removed and stored at room temperature for 2 hours	

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