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# Component Specification

Product : Speakerbox  
Part Number : CA-SB4533A-0420EW122  
Drawing No : K3050111

## Content

1. General
2. Electrical & Acoustical Characteristics
3. Test Circuit
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## 1. General

Speaker highly suitable for industrial applications.

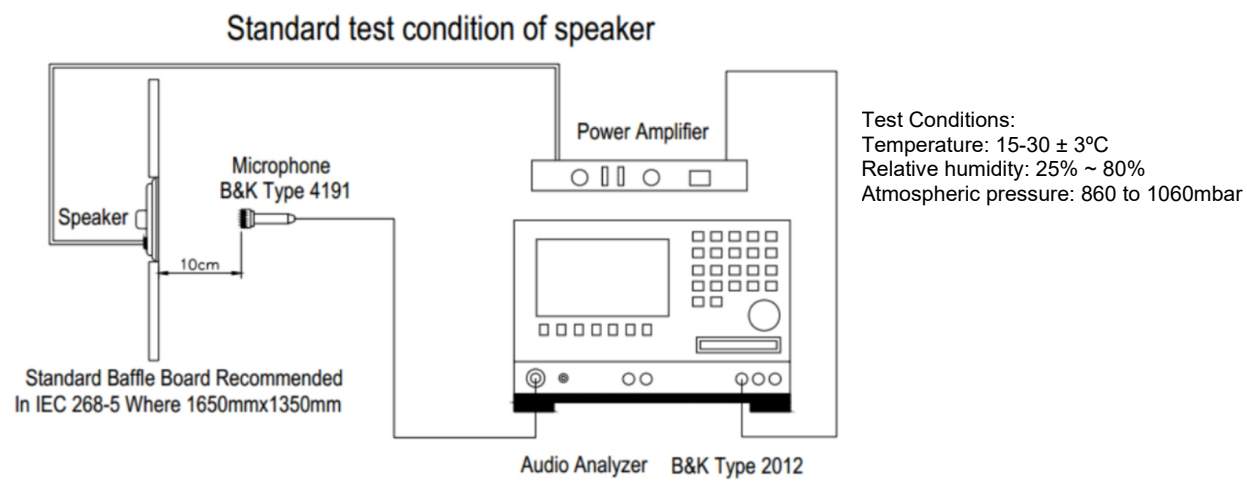
## 2. Electrical and Acoustic Characteristics

No	Items	Specification
1	Impedance	$4\Omega \pm 15\%$
2	Sound Pressure Level	90dB $\pm$ 3dB at 0.1W/0.1m , average at 1.0 1.2 1.5 2.0kHz
3	Resonance Frequency	350Hz $\pm$ 20%
4	Frequency Range	F(0) -10KHz
5	Input Power	Rated 2.0W / Max. 3W
6	Distortion	<10% Max. 2KHz/2 Vrms
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.83Vrms sine wave signal swept at frequency range.
8	Dimensions	Diameter: 45x33mm, Weight: 27g, Height: 19mm
9	Operating Temperature range	-20 + 85C

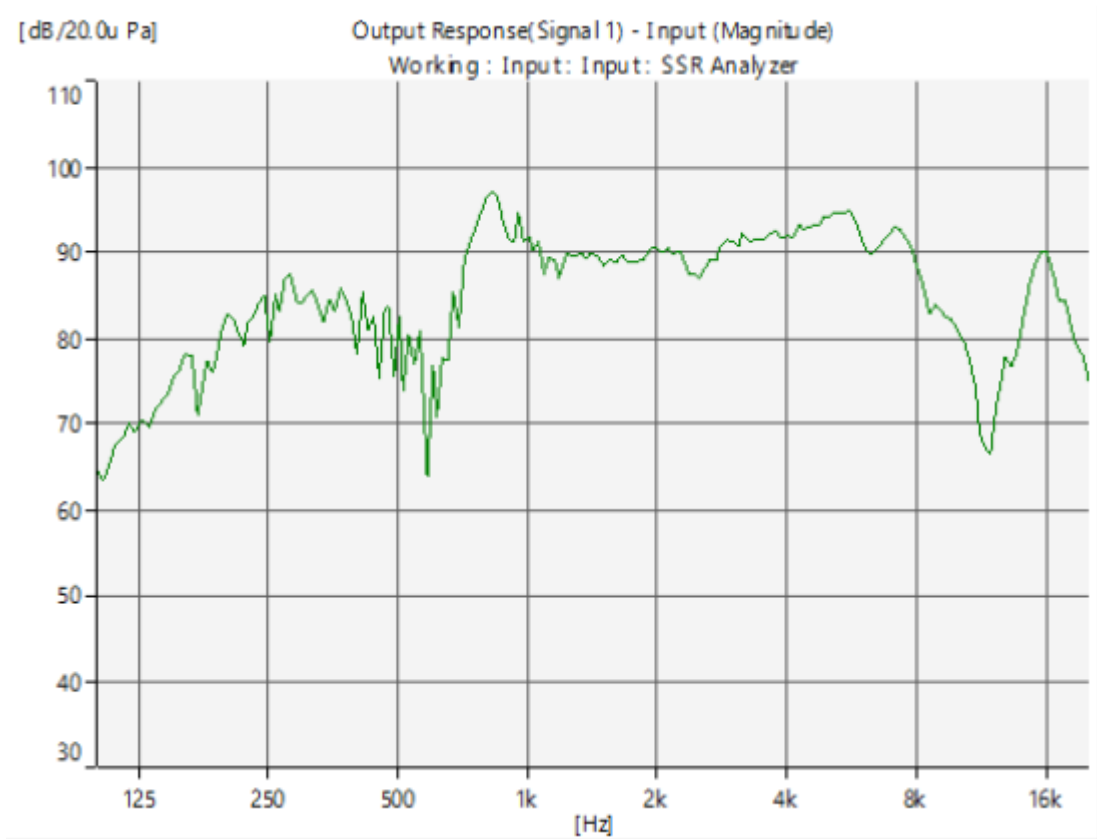
10	20.04.21	Preliminary release	S. Chen	S. Ge	G.Schubert
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3. Test Circuit



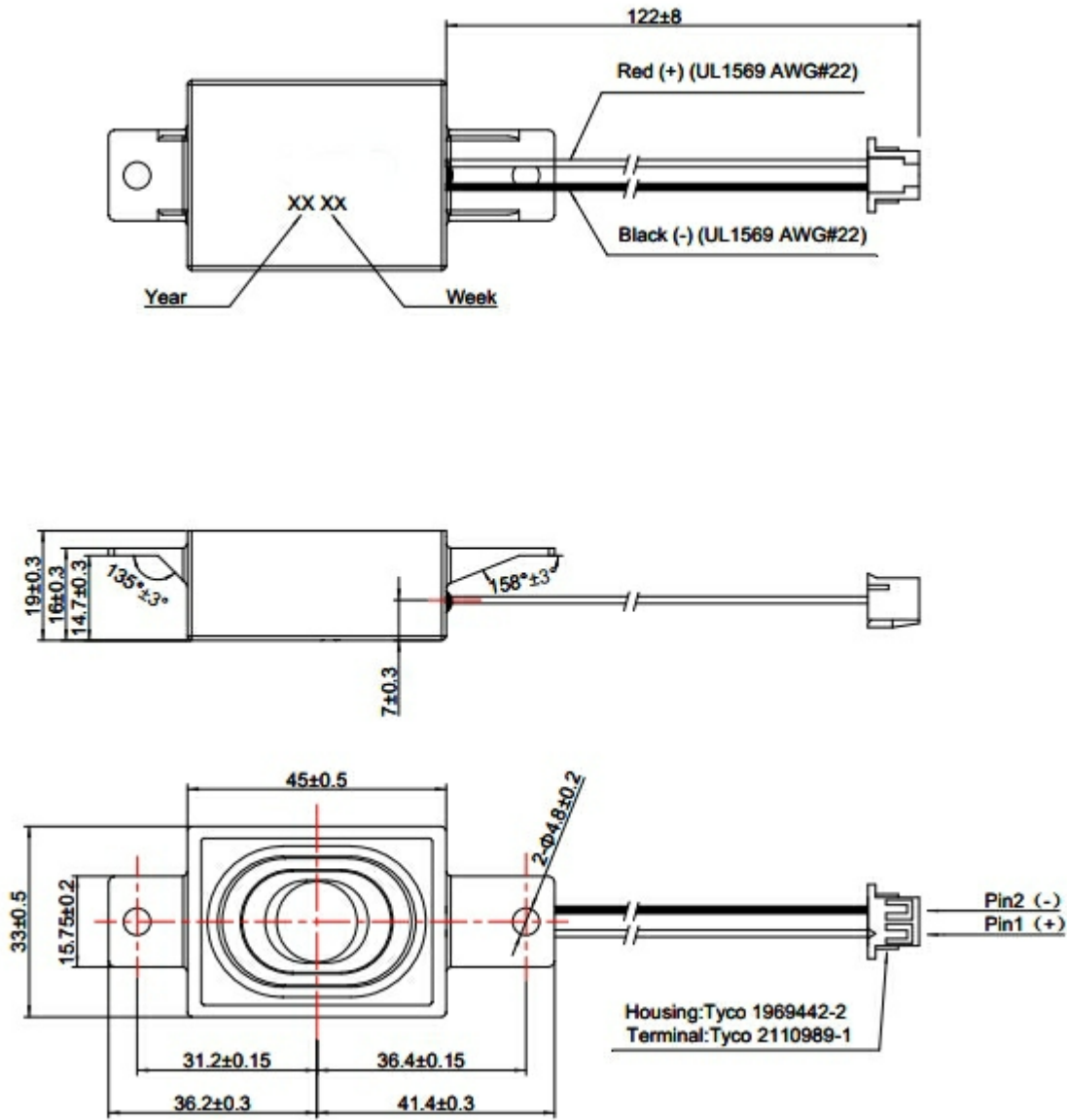
4. Frequency Response Curve




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5. Dimension



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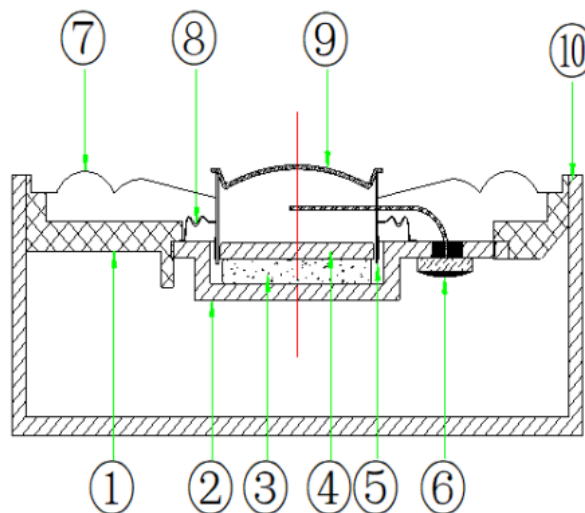
## 6. Reliability Test

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $85\pm 3^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be Measured.
2	Low Temperature Test	After being placed in a chamber with $-40\pm 3^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be Measured.
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at $+55\pm 3^{\circ}\text{C}$ for 6 hours and 6 cycles , then being placed in natural condition for 3 hour, speaker shall be measured.
4	Thermal Shock Test	After being placed in a chamber at $+85^{\circ}\text{C}$ for 60 min, then speaker shall be placed in a chamber at $-20^{\circ}\text{C}$ for 60 min (1 cycle ). After 4 above cycles, speaker shall be measured after being placed in natural condition for 60 min.
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.
6	Drop Test	The speaker when mounted in the jig which weight 85g~100g, shall with stand 4 times random drops from a height of 1.0 meter to a concrete floor faced with 5mm thick hard wood board. and be nothing mechanical damage.
7	Load Test	After being applied loading white noise with input power 2.0W ( 4.0Vrms) for 96 hours , then placed on natural condition for 1 hour , speaker shall be measured.
8	Insulation Test	When they are measured with DC 100V the insulation resistance between terminal and frame must be higher than 1 Mohm

After test the speaker S.P.L. Difference shall be within  $\pm 3\text{dB}$ , and the appearance not exist any change to be harmful to normal operation ( e.g. Cracks, rusts, damages and distortion)


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10	Box	1	ABS(777D)	
9	Dust cap		Kraft Paper	
8	Dmper		Silk	
7	Diaphragm	1	Tetoron	
6	Terminal	1	White Fiber	
5	V-coil	2	Lock bobbin	
4	Pate	1	SPCC	
3	Magnet	1	Nd-Fe-B	
2	Yoke	1	SPCC	
1	Frame	1	PBT	
No.	Part Name	Qty	Material	Remarks

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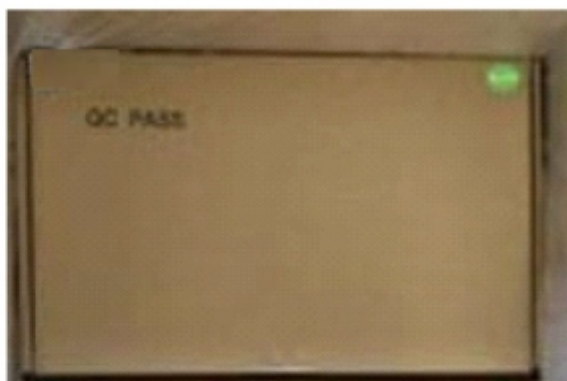
## 7. Packing

1



40PCS/盒

3



2




5盒/箱

4



QTY: 200PCS  
36x28x25.5cm

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8) Revision

Rev. No	Date	Page	Description	Sign
10	20.04.21	all	Preliminary release	G.Schubert

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Revision	Date	Notes	Drawn by	Checked by	Approved by