Speaker

SS0108-28050-90P

Description

This speaker is designed to convert electrical signals into sound waves. It is commonly used in electronic devices such as smartphones, laptops, and portable speakers to produce audio output. The speaker consists of a diaphragm that vibrates in response to the electrical signals, creating sound waves that are amplified by the speaker's enclosure.

Applications

- Electronic devices
- Industrial and commercial equipment
- Home appliances
- Toys and games
- Sound effects
- Audio Alerts
- Warning Signals
- Audio Feedback

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Features

Test and measurement will be carried out under normal condition of temperature within 5℃ to 35℃, relative humidity within 45% to 85% and air pressure of 860 mbar to 1060 mbar. Should uncertainly arise in data obtained from the above atmosphere, control of temperature at 20℃±2℃ and relative humidity within 60%and 70%, with air pressure remaining unchanged, to be enforced.

Electrical And Acoustical Specification

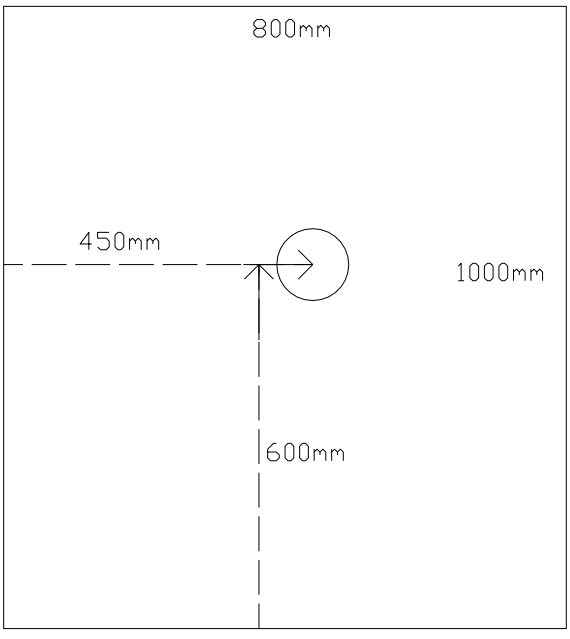
Parameter	Description
Rated Input Power.	**1.0W.**
Max Input Power.	**2.0**W
Rated Impedance.	**8Ω ± 15%**
Sound Pressure Level. **(S.P.L)**	90dB(0.1W/0.1m) ± 3 dB at AVE 0.8K 1.0K 1.2K 1.5K Hz
Resonance Frequency (Fo).	**550±20%**Hz

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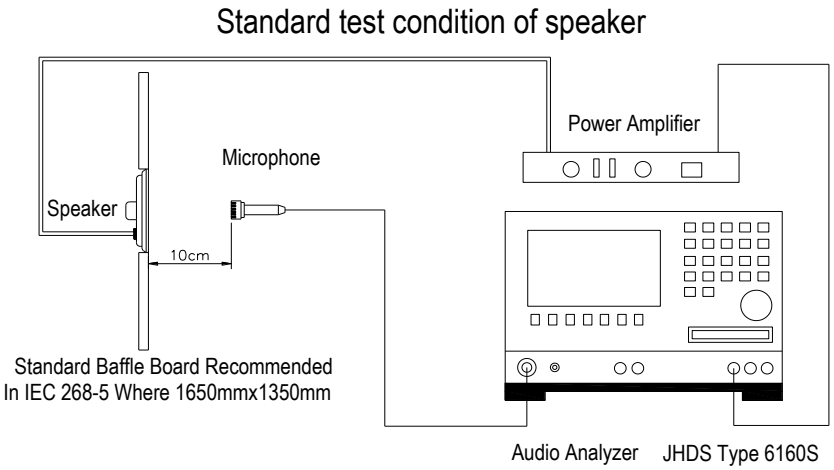
Frequency Range.	F0~20kHz.
Distortion	Less than 5% at 1KHz input Rated Power
Magnet	Rare earth permanent (NdFeB) magnet Φ9.5*1.5m
Buzz, Rattle, etc.	Should not be audible at 2.83V sine Wave between Fo to 20KHz
Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.
Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
Weight.	g
Temperature	Operating temperature: -20℃ to +60℃ Storage temperature: -20℃ to +60℃

Measuring Method

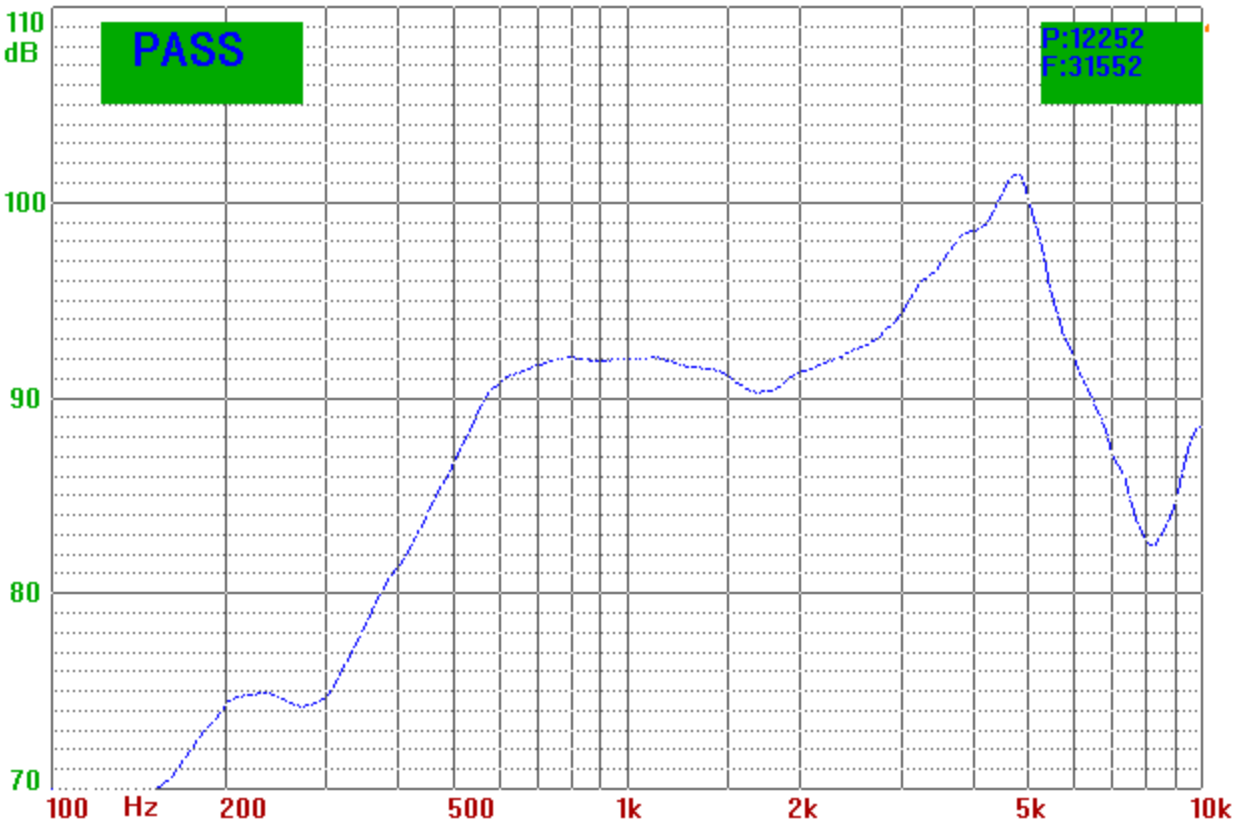


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Block Diagram For Measurement Method.

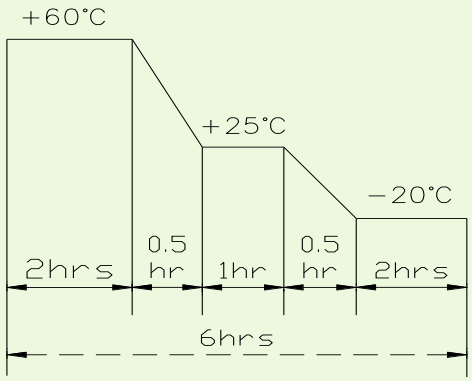


Frequency Response



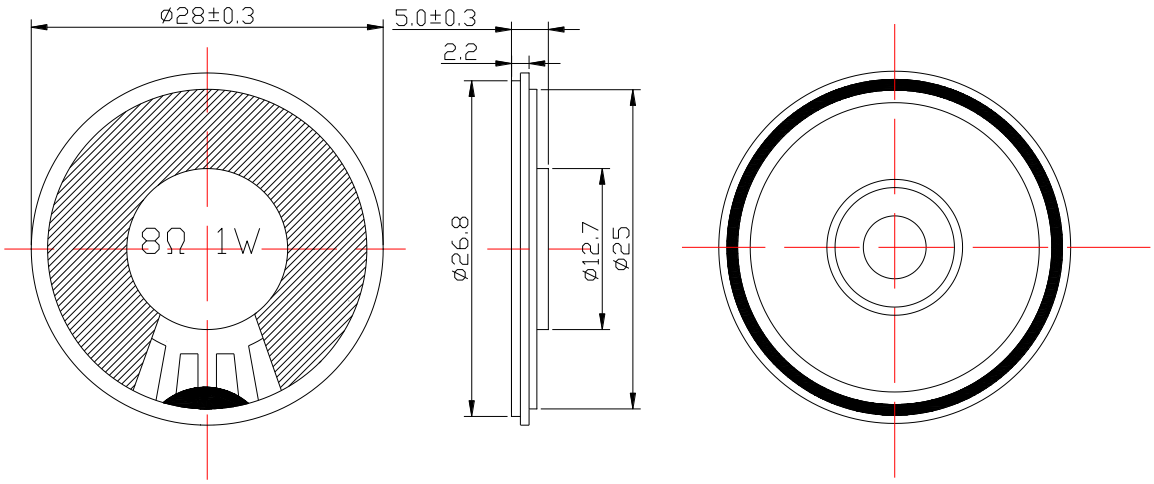
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Environment Test

Item	Specifications
High temp. Test	+ 60 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
Low temp. Test	− 25 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
Humidity test	+40℃±2℃ Relative Humidity(RH)90~95% 48 Hours
Temp./Humidity cycle	The part shall be subjected 4cycles. One cycle shall be 6 hours and consist of (GB5170.18-87) 
Vibration	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)
Drop test	75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)
Load test	Must perform normal with program White-Noise source at Rated Power for 96 Hours(GB/T 9397—200X)
Terminal strength test	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;
Criterion :	After these test , the change of S.P.L shall be within ±3 dB

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Dimensions



Unit:mm Tol:±0.5

7	Gasket	1	Paper	
6	Diaphragm	1	PET	
5	VOICE COIL	1	Paper+cu	
4	Plate	1	SPCC	
3	Magnet	1	NdFeB	
2	PCB Terminal	1	FR4	
1	Frame	1	Spcc	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

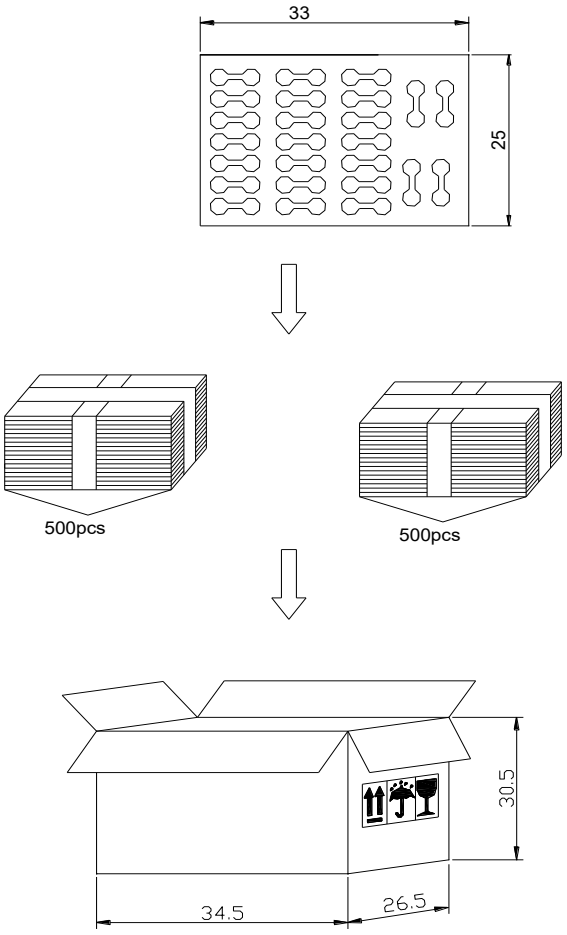
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Part number

STB1001X-XXX-XX

STB1001	Style of connector
X	orientation
XXX	Pitch
XX	Poles

Packing



Remark: 50pcs per tray, 10 trays for unit, 2 units per carton

Total:1000 pcs per box

Size:34.5*26.5*30.5cm

Ordering information

Ordering can be done via www.summit-electronics.com or via info@summit-electronics.com. Please contact us for more information. Customisation of the product is available on request.

Technical support

For all product questions please contact us via info@summit-electronics.com

Document revision

Rev	Date	Changes
V01.00	06-04-2023	First issue of document