

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

Electrical And Acoustical Specification

- Home appliances
- Toys and games

- Sound effects
- Audio Alerts
- Warning Signals

Parameter Description 2.0 W **Rated Input Power Max Input Power** 2.2 W **Rated Impedance** $4\Omega \pm 15\%$ Sound Pressure Level 102 dB ± 3 dB (2W/0.1m) @ 1KHz in 2 cc closed box with baffle **Resonance Frequency (Fo)** 850 ±20%Hz **Frequency Range.** F0 ~ 20kHz. Distortion Less than 5% at 1KHz input Rated Power Magnet Rare earth permanent (NdFeB) magnet 8x1.2 Buzz, Rattle, etc. Should not be audible at 2.83V sine Wave between F0 to 20 KHz

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Data can change without any prior notifications



PolarityWhen positive voltage is applied to the terminal marked (+), diaphragm should move to the front.AppearanceShould not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.TemperatureOperating temperature: -20°C to +70°C Storage temperature: -30°C to +85°CWaterproof RatingIP67Wire length70 mmFoamOn front		
Temperatureoperation; damages, cracks, rusts and distortions, etc.TemperatureOperating temperature: -20°C to +70°C Storage temperature: -30°C to +85°CWaterproof RatingIP67Wire length70 mmConnectorJST SHR-02V-S 1.0 mm	Polarity	
Storage temperature: -30°C to +85°CWaterproof RatingIP67Wire length70 mmConnectorJST SHR-02V-S1.0 mm	Appearance	-
Waterproof RatingIP67Wire length70 mmConnectorJST SHR-02V-S1.0 mm	Temperature	Operating temperature: -20°C to +70°C
Wire length70 mmConnectorJST SHR-02V-S1.0 mm		Storage temperature: -30°C to +85°C
Connector JST SHR-02V-S 1.0 mm	Waterproof Rating	IP67
1.0 mm	Wire length	70 mm
	Connector	JST SHR-02V-S
Foam On front		1.0 mm
	Foam	On front

Measuring Conditions

Test and measurement will be carried out under normal condition of temperature within 15°C to 35°C, relative humidity within 25% to 75% and air pressure of 860 mbar to 1060 mbar according to standard GB/T9397-200X and IEC60268-1

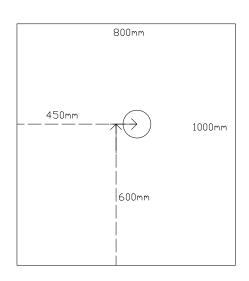
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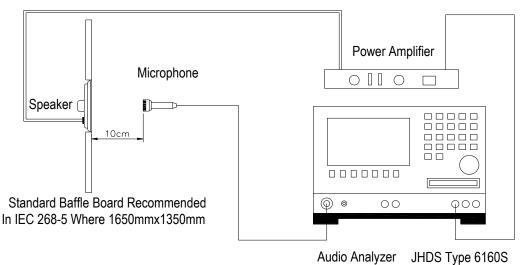


Measuring Method



Block Diagram For Measurement Method.

Standard test condition of speaker



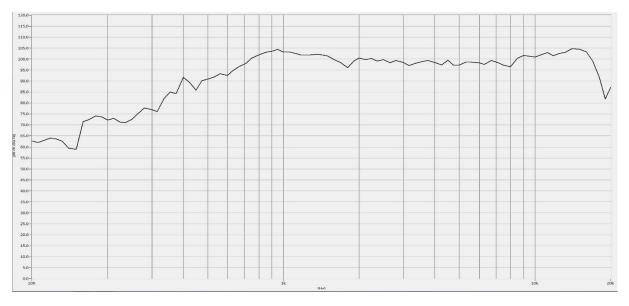


V01.00



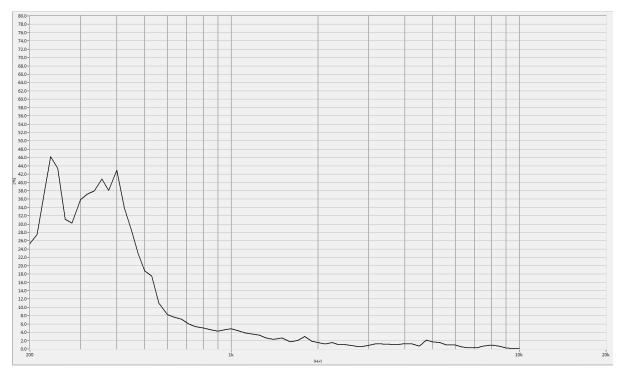
Frequency Response Curve

Test condition: 2.0W/0.1M, in 2cc closed box with Baffle



Total Harmonic Distortion Curve

Test condition: 2.0W/0.1M, in 2cc closed box with Baffle







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Environment Test

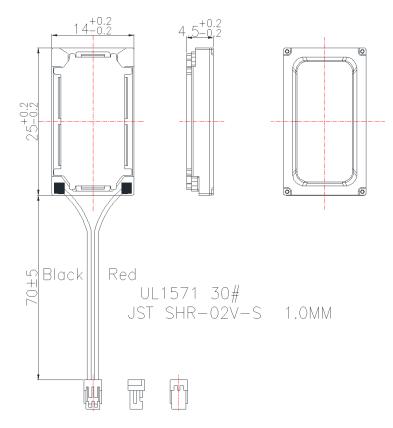
Parameter	Description	
High temp. Test	Keep 96 hours at +60°C±2°C (GB/T 9397-200x)	
Low temp. Test	Keep 96 hours at -25°C±2°C (GB/T 9397-200x)	
Humidity test	Keep 48 hours at + 40°C±2°C relative humidity 90-95%	
Temp./Humidity cycle	The part shall be subjected 4cycles. One cycle shall be 6 hours and consist of (GB5170.18-87) +60°C +60°C +25°C -20°C 2hrs hr 1hr hr 2hrs 6hrs	
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;	



V01.00



Dimensions



Unit:mm Tol:±0.5

PART NO.	PART NAME	Q'TY	MATERIAL
1	Diaphragm	1	PEEK
2	Voice Coil	1	Copper Wire
3	Front Plate	1	SPCC
4	Magnet	1	NdFeB
5	Frame	1	РРА
6	U Yoke	1	SPCC
7	Pole Piece	1	SPCC



V01.00



Ordering information

Ordering can be done via <u>www.summit-electronics.com</u> or via <u>info@summit-electronics.com</u>. 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	17-06-2024	First issue of document

