

SPECIFICATION

Customer :

Applied To :

Product Name : Dynamic Speaker

Model Name : VS40x25R8F900P4WP

Drawing No. : VS20220712016

Signature of Appronal

[illegible]

Signature of Voise

Approved by	Checkde by	Issued by	Date

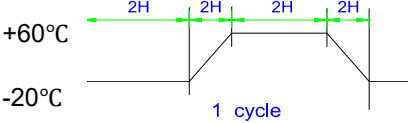


福爱斯电子有限公司
VOISE ELECTRONICS CO.,LTD.

Address: No 96 Mogao Dongqian Lake Industrial Area Ningbo, China,
Tel: 0086-0574-87773030; Fax: 0086-0574-87471600 P.C. 315121
<http://www.nbvoice.com> Email: sales@nbvoice.com

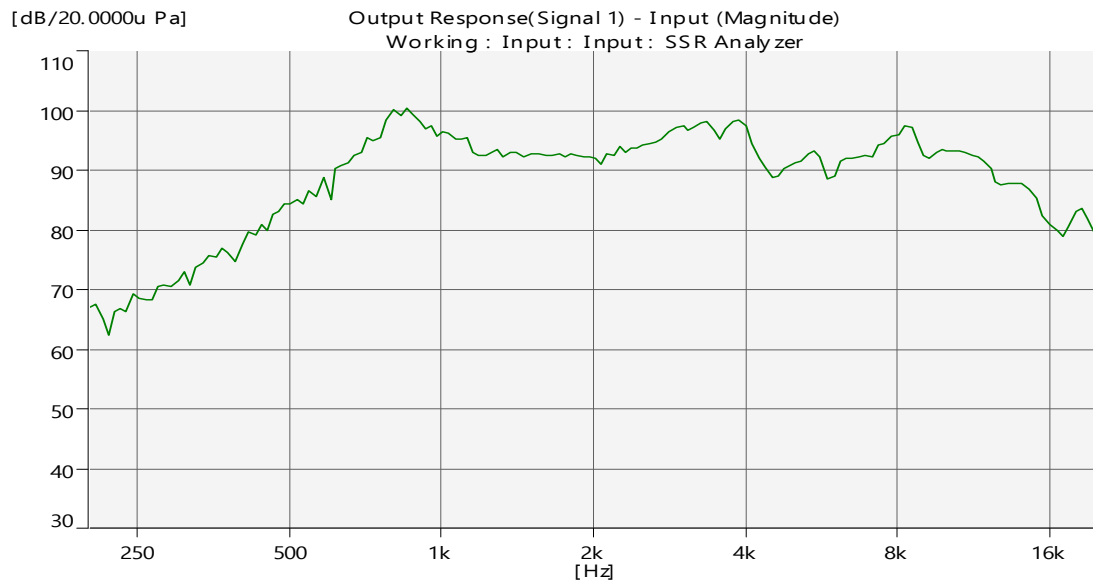
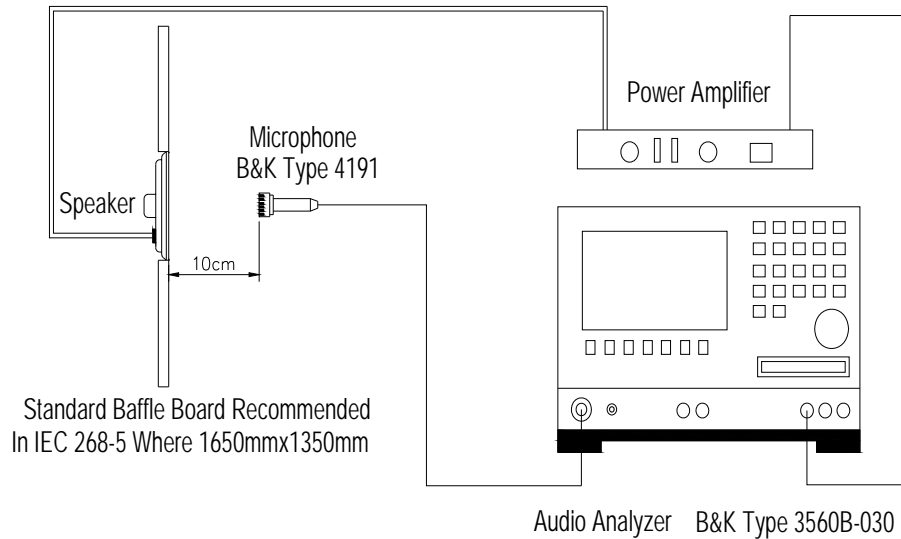
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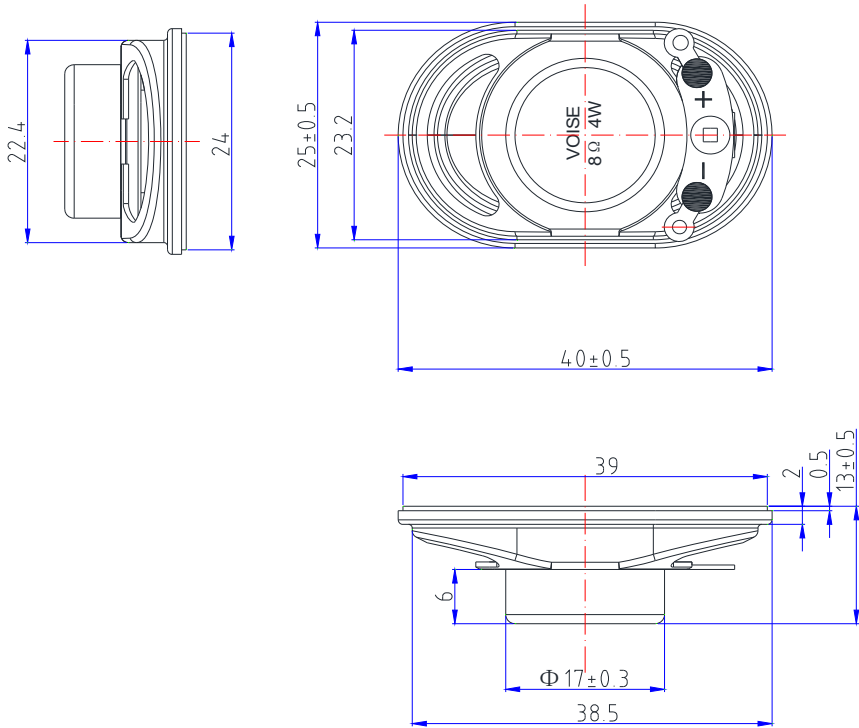
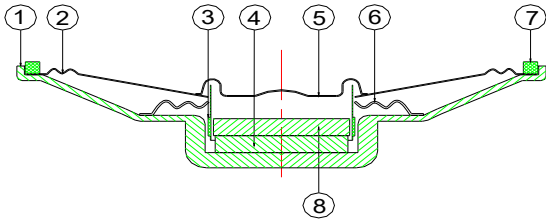
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<h2>1. Scope</h2> <p>This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.</p> <p>-- compact, rich sound</p> <p>-- applications: mobile phone, PDA, notebook computer, etc. ..</p>																																											
<h2>2. General</h2> <p>2.1 Out-Diameter : 40x25 mm</p> <p>2.2 Height : 13 mm</p> <p>2.3 Weight : 20 g</p> <p>2.4 Operating Temperature range:</p> <p>-20~+60℃ without loss of function</p> <p>2.5 Store Temperature range:</p> <p>-30~+70℃ without loss of function</p>																																											
<h2>3. Electrical and Acoustic Characteristics.</h2> <p>Test condition : 15 ~ 35 ℃, 25% ~ 85% RH, 860~1060 mbar</p>																																											
<table> <tr> <th>No</th><th>Items</th><th colspan="2">Specification</th></tr> <tr> <td>1</td><td>Impedance</td><td colspan="2">8 Ω ± 15% (1Vrms at 2KHz)</td></tr> <tr> <td>2</td><td>Sound Pressure Level</td><td colspan="2">90 dB ± 3dB (at 0.1m/0.1w at 0.8,1.0,1.5,2.0kHz Average)</td></tr> <tr> <td>3</td><td>Resonance Frequency</td><td colspan="2">900 Hz ± 20% at 1Vrms</td></tr> <tr> <td>4</td><td>Frequency Range</td><td colspan="2">f0~20KHz</td></tr> <tr> <td>5</td><td>Input Power</td><td colspan="2">Rated 4 W / Max. 5 W for one minute</td></tr> <tr> <td>6</td><td>Distortion</td><td colspan="2"><10% Max. at 2kHz 2.83W</td></tr> <tr> <td>7</td><td>Buzz and Rattle</td><td colspan="2">Should not be audible buzzes,rattles when the 5.66V sine wave signal swept at frequency range.</td></tr> <tr> <td>8</td><td>Polarity</td><td colspan="2">When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.</td></tr> <tr> <td>9</td><td>Waterproof Level</td><td colspan="2">IP67</td></tr> </table>				No	Items	Specification		1	Impedance	8 Ω ± 15% (1Vrms at 2KHz)		2	Sound Pressure Level	90 dB ± 3dB (at 0.1m/0.1w at 0.8,1.0,1.5,2.0kHz Average)		3	Resonance Frequency	900 Hz ± 20% at 1Vrms		4	Frequency Range	f0~20KHz		5	Input Power	Rated 4 W / Max. 5 W for one minute		6	Distortion	<10% Max. at 2kHz 2.83W		7	Buzz and Rattle	Should not be audible buzzes,rattles when the 5.66V sine wave signal swept at frequency range.		8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		9	Waterproof Level	IP67	
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<h2>4. Reliability Test</h2> <p>After test(1~7item), 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 especially distortion).</p>			
No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with $+60\pm 3\text{ }^{\circ}\text{C}$ for 100 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 $-20\pm 3\text{ }^{\circ}\text{C}$ for 100 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 $+40\pm 2\text{ }^{\circ}\text{C}$ for 100 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
4	Thermal Shock Test	<p>After being placed in a chamber at $+60^{\circ}\text{C}$ for 2 hour, then speaker shall be placed in a chamber at -20°C for 2 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec..</p>  <p>The diagram illustrates one cycle of the thermal shock test. It shows a temperature profile starting at $+60^{\circ}\text{C}$, dropping to -20°C, and then returning to $+60^{\circ}\text{C}$. The duration of each temperature hold is labeled as 2H (2 hours). The entire sequence is labeled as '1 cycle'.</p>	
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 2 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 5 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 4W(5.66Vrms.) for 100 hours, then placed in natural condition for 1 hour, speaker shall be measured.	
8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 M Ω	

5. Measurement Block Diagram & Response curve

Standard test condition of speaker



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<div> <div>6. Dimensions</div> <div>   </div> <div> <div>6.1 Structure</div>  </div> </div>				
8	Plate	1	SPCC	
7	Gasket	1	ABS	
6	Damper	1	Cloth	
5	Waterproof Dust cap	1	Mylar	
4	Magnet	1	Nd-Fe-B	
3	Voice Coil	1	KSV	
2	Waterproof Diaphragm	1	Mylar	
1	Frame	1	SPCC	
No.	Part Name	Q'ty	Material	Remarks

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Revision No.

1.0

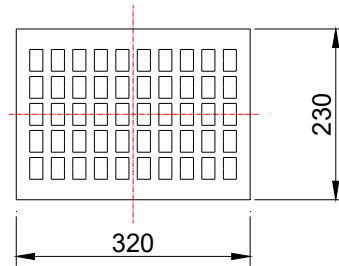
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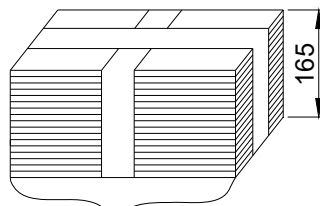
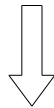
VS20220712016

7. Packing

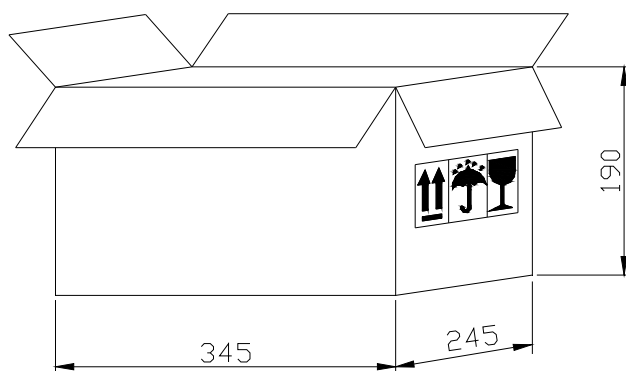
A Customer Specification



50pcs



1000pcs



50 pcs per tray

20 trays for unit

Total:1000 pcs per carton

Size:34.5×24.5×19cm

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