SPECIFICATION

Customer	:						
Applied To	:						
Product Na	mε: Dyn	amic Speake	er				
Model Nam	e : VS1	511SL40-YS	35				
Drawing No). : VS2	0200225015					
	Signatu	re of Appronal					
Signature of Voise							
	Signa	uie di voise					
Approved by	Checkde b	y Issued by	Date				



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- 7		Revision No.	1.0	
Model No.	: VS1511SL40-YS35	Drawing No.	VS20200225015	

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1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.

- -- compact, rich sound
- -- applications: mobile phone, PDA, notebook computer, etc. ..

2. General

2.1 Out-Diameter : 15x11 mm
 2.2 Height : 3.5 mm
 2.3 Weight : 1 g

2.4 Operating Temperature range:

-30~+60℃ without loss of function

2.5 Store Temperature range:

-30~+70°C without loss of function

3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 $^{\circ}$ C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	82 dB ± 3dB 1V at 2kHz 10cm)		
3	Posonanco Fraguency	750 Hz ± 20% in free air		
3	Resonance Frequency	900 Hz ± 120% in 1cc Box		
4	Frequency Range	750Hz ~10KHz		
5	Input Power	Rated 0.5 W / Max. 0.8 W In 1cc Box		
6	Distortion	<10% Max. at 1kHz 0.5W		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2V sine wave signal swept at frequency range.		
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		

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4. Reliability Test

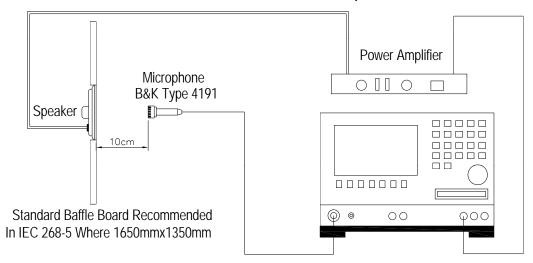
After test(1~7item), the speaker S.P.L . difference shall be within ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification			
1	High Temperature Test	After being placed in a chamber with +70±3 $^{\circ}$ 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 -30±3 °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±2 $^{\circ}$ C for 100 hours and then being placed in natural condition for 1 hour, speaker shall be measured.			
4	Thermal Shock Test	After being placed in a chamber at $+60^{\circ}\mathrm{C}$ for 1 hour, then speaker shall be placed in a chamber at $-30^{\circ}\mathrm{C}$ for 1 hour(1 cycle is the below diagram). After 5 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to55Hz 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 6 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 0.5W(2Vrms.) for 100 hours In 1cc Box, then placed in natural condition for 1 hour, speaker shall be measured.			

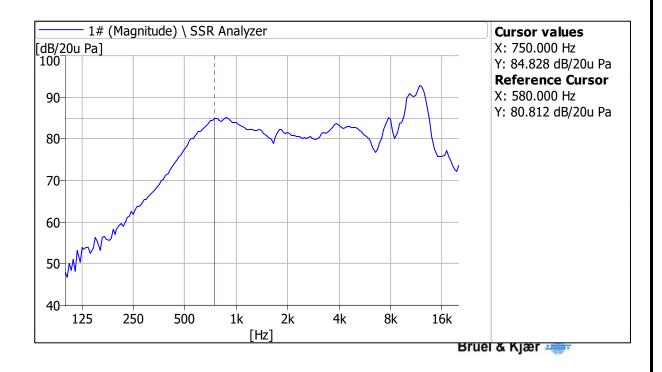
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5. Measurement Block Diagram & Response curve

Standard test condition of speaker

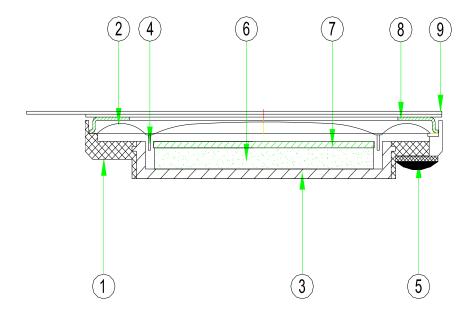


Audio Analyzer B&K Type 2012

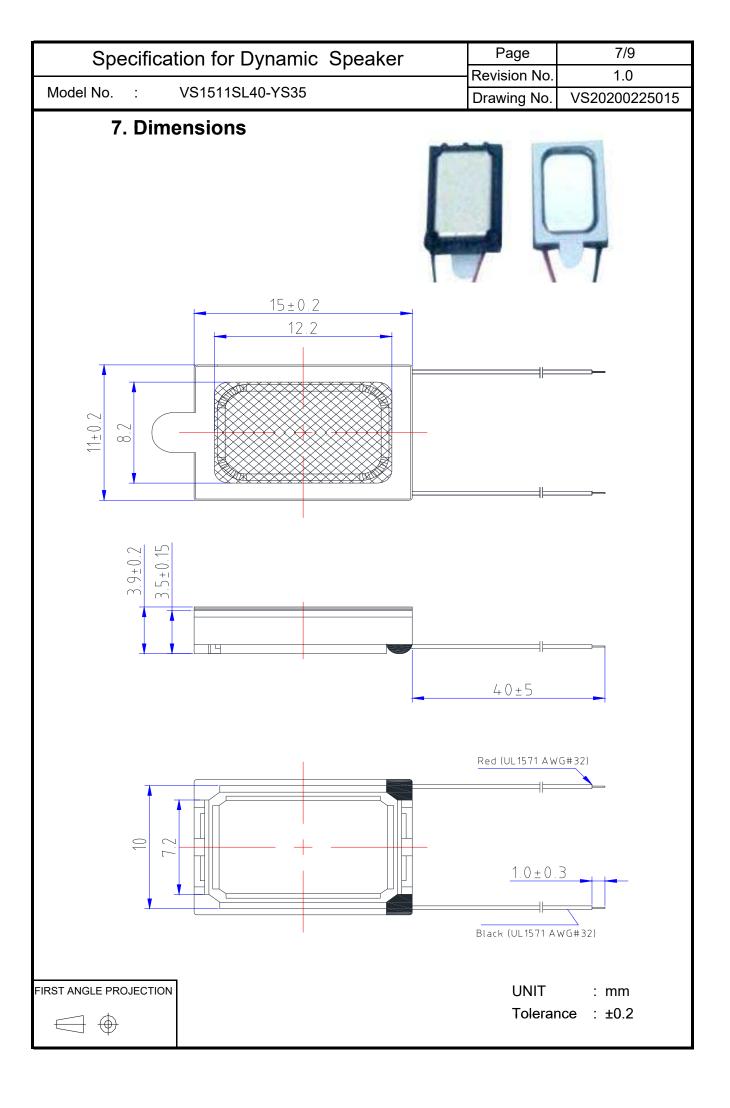


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6. Structure



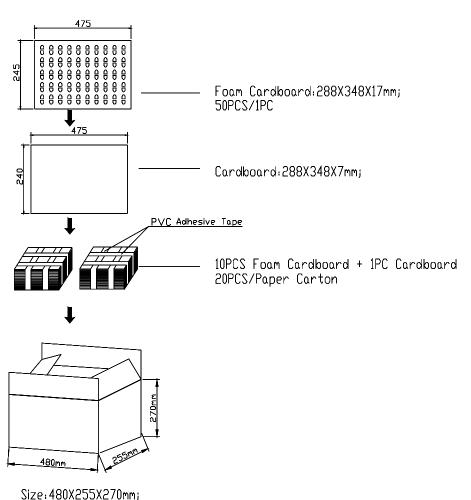
9	Gasket	1	NET180+ mash	
8	Cover	1	PC	
7	Polarity Plate	1	SPCC	
6	Magnet	1	Nd-Fe-B	
5	PIN	1	CU	
4	Voice coil	1	CU	
3	Yoke	1	SPCC	
2	cone	1	PEEK	
1	Frame	1	PBT	
No.	Part Name	Q'ty	Material	Remarks

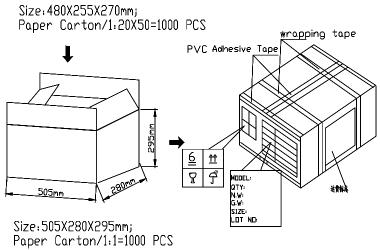


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8. Packing

A Customer Specification





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Drawing No. V320200						00223013	
9. Revision							
Rev.No.	DATE	PAGE	DESCRIPTIO	N		ВОМ	
1.0	2015-12-16		Primary				