SPECIFICATION

Customer	:	
Applied To	:	
Product Name	:	Dynamic Speaker
Model Name	:	VS150825T3MWP
Drawing No.	:	VS202004028012

Signature of Appronal

Signature of Voise

Approved by	Checkde by	Issued by	Date



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Specification for Dynamic Speaker	Page	2/9
	Revision No.	1.0
Model No. : VS150825T3MWP	Drawing No.	VS202004028012

CONTENTS

- 1. Scope
- 2. General
- 3. Electrical and Acoustic Characteristics.
- 4. Reliability Test
- 5. Measurement Block Diagram & Response curve
- 6. Structure
- 7. Dimensions
- 8. Packing
- 9. Revision

Specification for Dynamic Speaker	Page	3/9
	Revision No.	1.0
Model No. : VS150825T3MWP	Drawing No.	VS202004028012

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-Diamete	er :	15x8 n	nm
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- 2.2 Height : 2.5 mm
- 2.3 Weight : 1.1 g
- 2.4 Operating Temperature range:

-20~+60°C 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

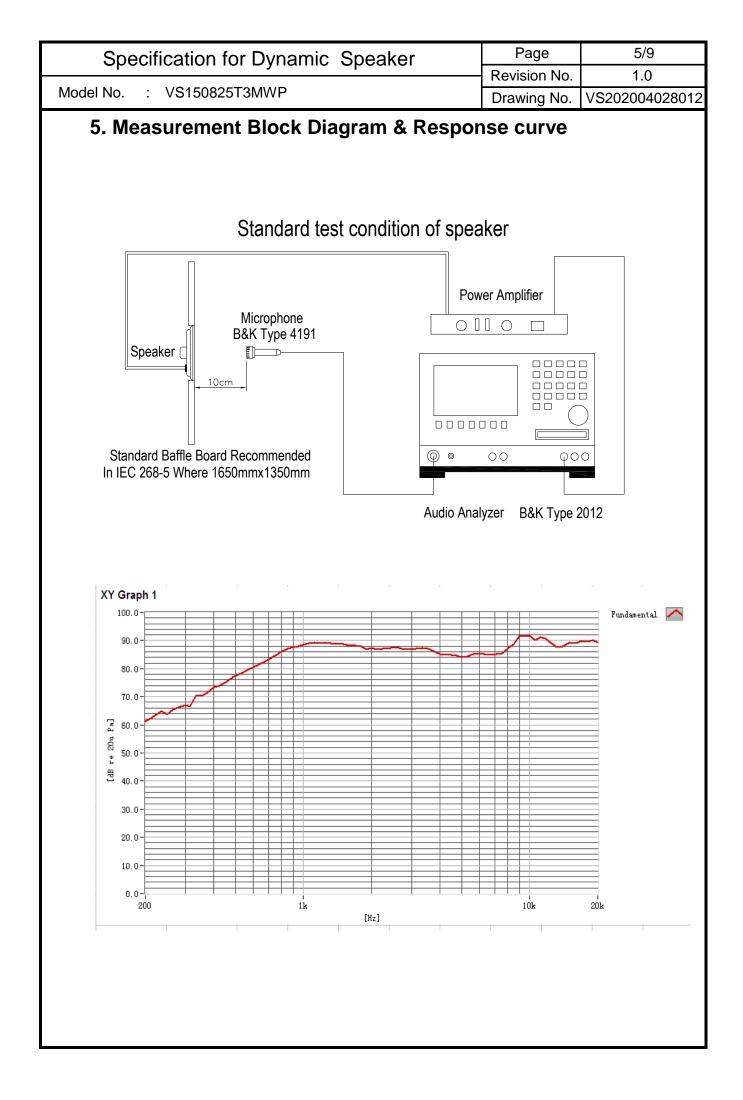
No	Items	Specification		
1	Impedance	$6 \Omega \pm 15\%$ (1Vrms at 2KHz)		
2	Sound Pressure Level	90 dB ± 3dB 2Vrms at 10cm 2KHz		
3	Pagananaa Fraguanay	800 Hz ± 20% in free air		
3	Resonance Frequency	950 Hz ± 20% in 1cc Box		
4	Frequency Range	F0 ~10KHz		
5	Input Power	Rated 0.5 W / Max. 0.8 W In 1cc Box		
6	Distortion	<10% Max. at 1kHz 0.5W		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 1.73V 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	Water proof	IP67		

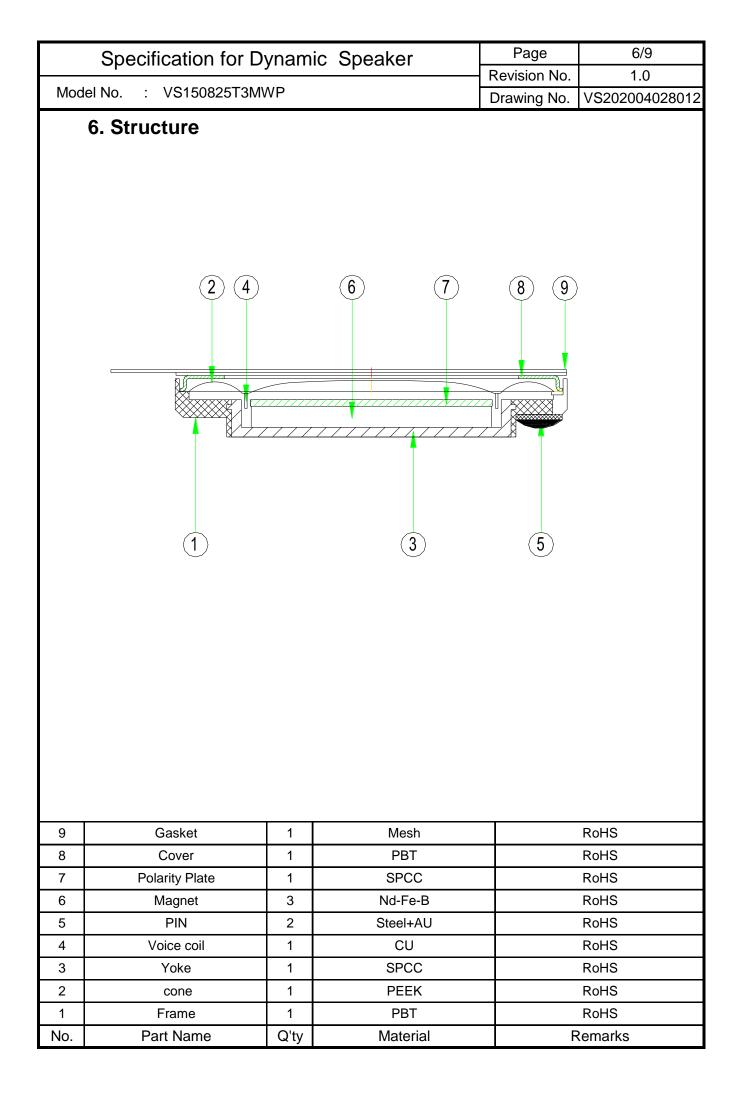
Specification for Dynamic Speaker	Page	4/9
	Revision No.	1.0
Model No. : VS150825T3MWP	Drawing No.	VS202004028012

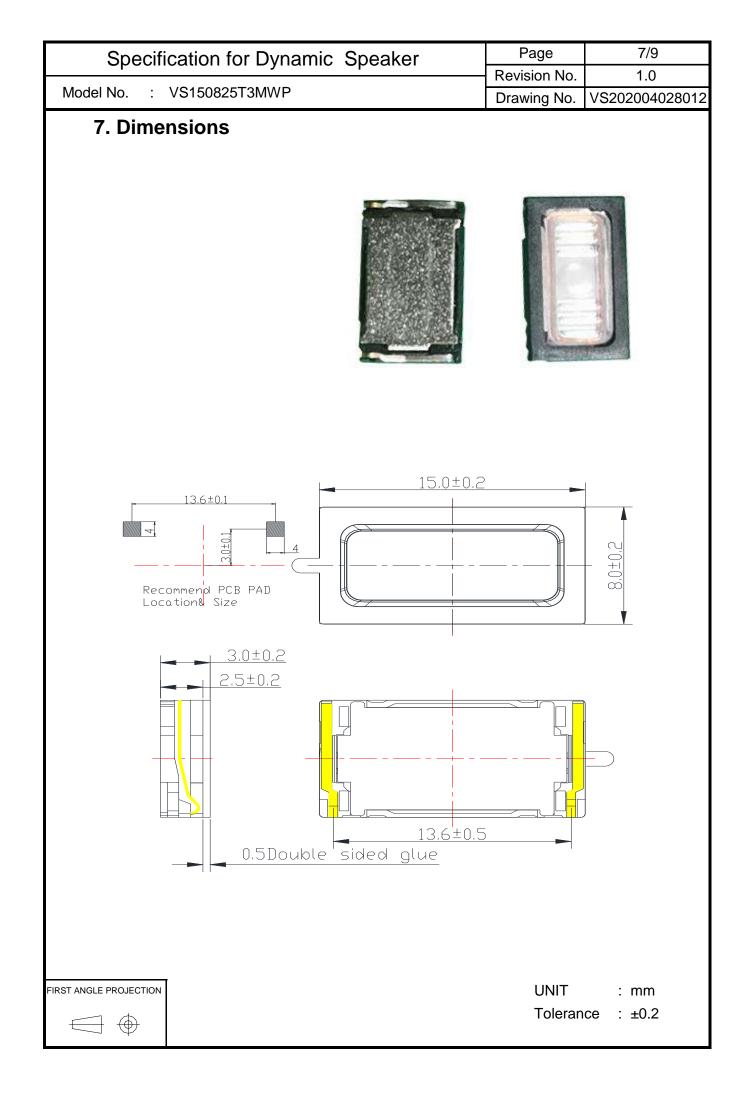
4. Reliability Test

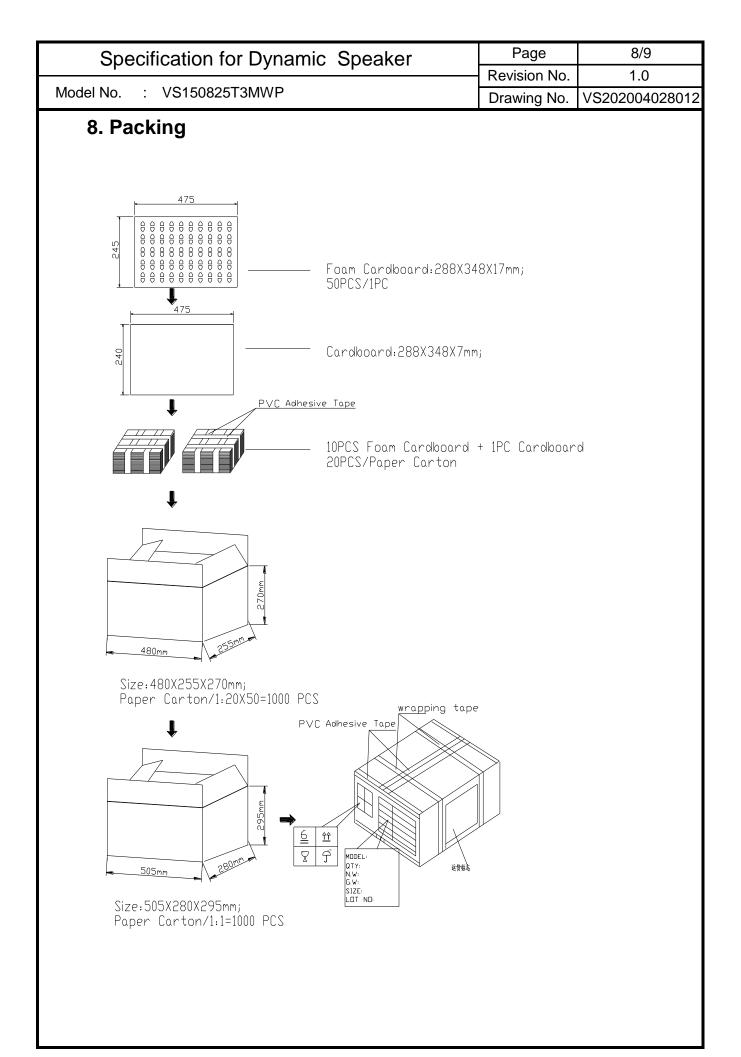
After test(1~7item), the speaker S.P.L . difference shall be within ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification		
1	High Temperature Test	After being placed in a chamber with $+70\pm3$ °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 $+40\pm2$ °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°C for 1 hour, then speaker shall be placed in a chamber at -20°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. +60°C -20°C 1 hour 1 hour		
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(1.73Vrms.) for 100 hours In 1cc Box, then placed in natural condition for 1 hour, speaker shall be measured.		
8	Max Power test	Max power 1 min on – 2 min off 10 cycles.		









	Specific	ation	for Dynamic Speaker	Page	9/9
Model No. : VS150825T3MWP		Revision No.	1.0 VS202004028012		
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	9. Revision				
Rev. No.	DATE	PAGE	DESCRIPTION	l	BOM
1.0	2020-4-23		Primary		
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