SPECIFICATION Z

QUARTZ-1 Customer

Applied To

Product Name: Speaker

Model Name: KP45X40SP1F-5298

Drawing No. : KFC5298

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
100ms	(m)	刘敬	

宁波凯普电子有限公司



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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 : 45X40 mm
 2.2 Height : 16.4 mm
 2.3 Weight : 8.5 g

2.4 Operating Temperature range:

-20 ~+60 ℃ without loss of function

2.5 Store Temperature range:

-30 ~+75 ℃ without loss of function

3. Electrical and Acoustic Characteristics.

Test condition: 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification		
1	Impedance	$8 \Omega \pm 15\%$ (1Vrms at 1KHz)		
2	Sound Pressure Level	89 dB ± 3dB (0.1w/0.1m at average 0.5,0.6,0.8,1.0KHz)		
3	Resonance Frequency	350 Hz ± 20%		
4	Frequency Range	Fo ~6KHz		
5	Input Power	Rated 0.25 W / Max. 0.3 W		
6	Distortion	10% Max. at 1kHz 0.25W		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 1.41V 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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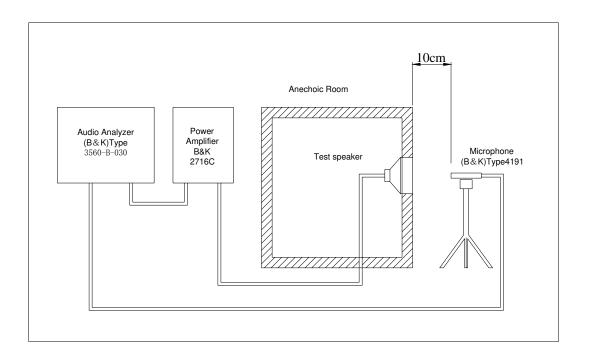
4. Reliability Test

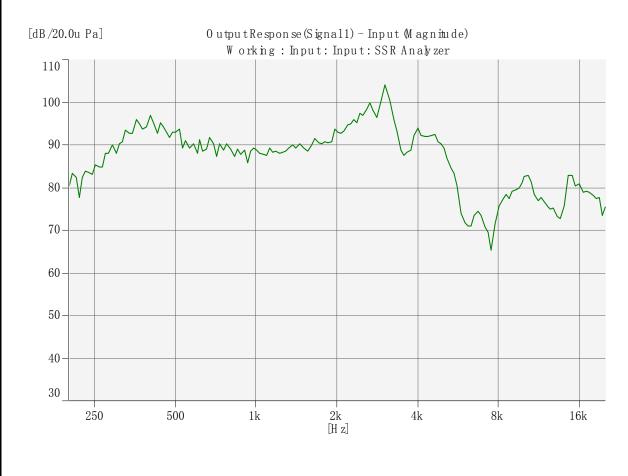
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with +75 ±3 °C for 96 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 96 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 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
be placed i diagram). After 4 abo		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 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec +60 °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 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.	
6	The speaker when mounted in the jig which weight 85g~100 shall with stand 15 times random drops from a height of 1.5 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 0.25W(1.41Vrms.) for 96 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 $\text{M}\Omega$	

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5. Measurement Block Diagram & Response curve

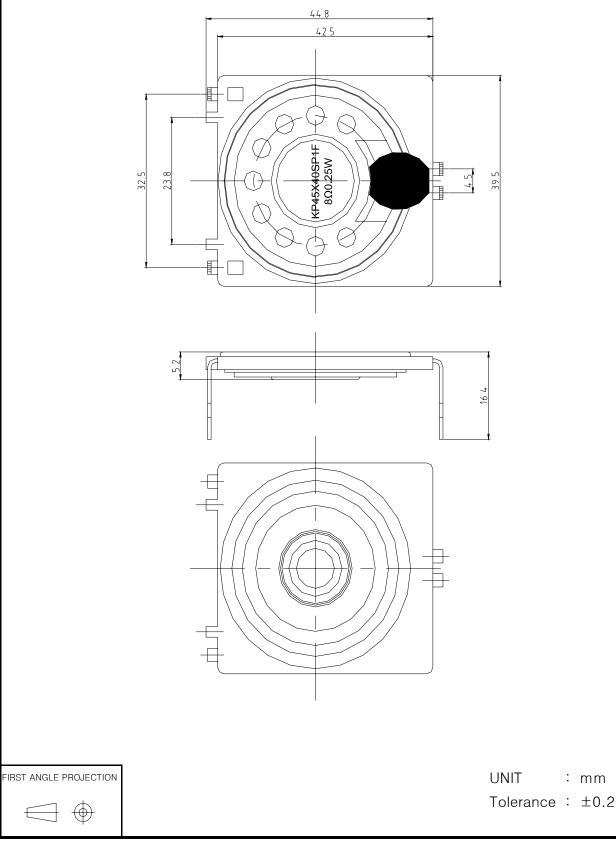




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6. Structure 5	6	3		4
7 Plate	1	SPCC		
6 Magnet	1	Nd-Fe-B		
5 Frame	1	ABS+SPCC		
4 Spring	1	Copper		
3 Diaphragm	1	PET		
2 Voice Coil	1	Copper		
1 Frame	1	ABS		
No. Part Name	Q'ty	Material	Rei	marks

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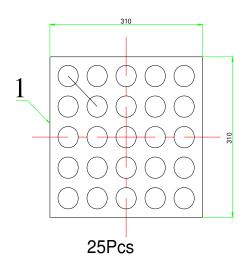
7. Dimensions

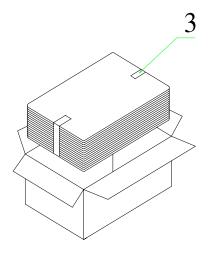


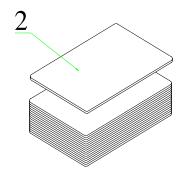
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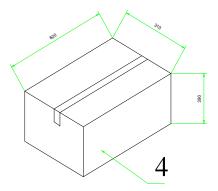
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8. Packing









QTY: 500Pcs 620x310x390

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9. Revision						
Rev. No.	DATE	PAGE	DESCRIPTION			ВОМ
1.0	2009-8-19		Primary			