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		Revision No.	1.0
Model No.	KP50170SP1C40-5877	Drawing No.	KFC5877

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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 : ϕ 50 mm 2.2 Height : 17.5 mm 2.3 Weight : 50 ± 5 g 2.4 Operating Temperature range:

-25 ~+70 °C without loss of function

2.5 Store Temperature range:

-25 ~+70 °C without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	88 dB ± 3dB (1W/1M AVG at 0.8,1.0,1.2,1.5 KHz)		
3	Resonance Frequency	400 Hz ± 20%		
4	Frequency Range	Fo ~5.0KHz		
5	Input Power	Rated 0.5 W / Max. 1.0 W		
6	Distortion	<10% Max. at rated power 2kHz		
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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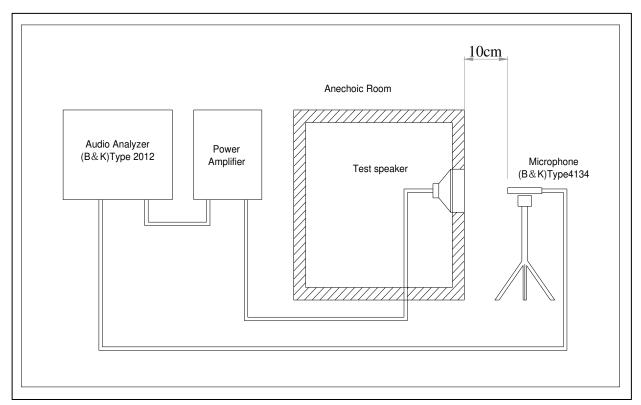
4. Reliability Test

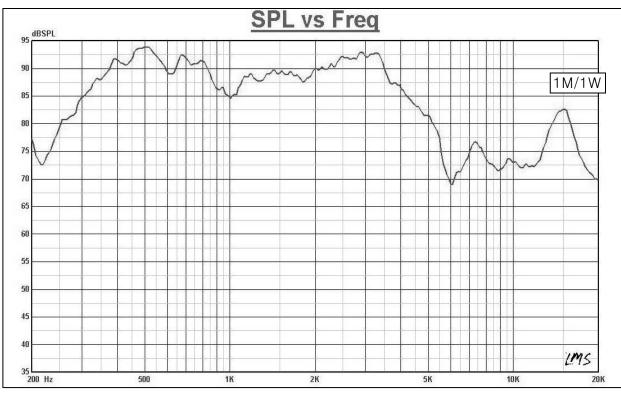
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items Specification				
NO	items	Opecinication			
1	High Temperature Test	After being placed in a chamber with +70±5 °C for 240 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 -25±5 °C for 240 hours and then being placed in natural condition for 1 hour, speaker shall be measured.			
3	Humidity Test	After being placed in a chamber with40to90%R.H. at +40±5 °C for 240 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 +70 °C for 1 hour, then speaker shall be placed in a chamber at -25 °C for 1 hour(1 cycle is the below diagram). After10above cycles, speaker shall be measured after being placed in natural condition for 1 hour. 20 Sec. +75 °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 1 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 15 times random drops from a height of 1.5 meter to 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 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 $M\Omega$			

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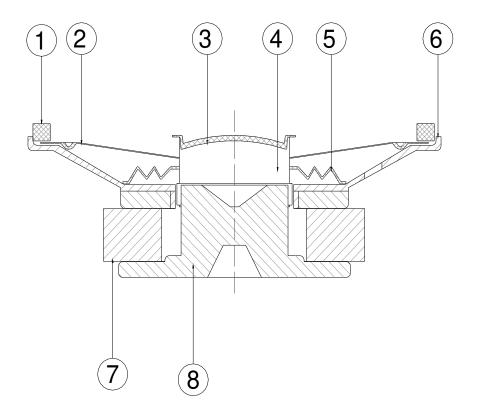
5. Measurement Block Diagram & Response curve





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6. Structure

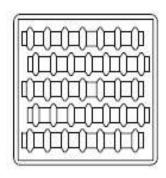


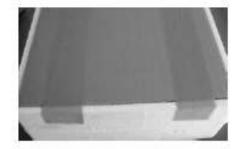
8	Back Plate	1	SPCC	
7	Magnet	1	Y30	
6	Frame and Top plate	1	SPCC	
5	Spider	1	silk irom	
4	Voice Coil	1	Cone Paper +Foam edge	
3	waterproof Cap	1	Paper	
2	waterproof Cone	1	Paper	
1	Gasket	1	Paper	
No.	Part Name	Q'ty	Material	Remarks

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7. Dimens	ions	0	
	ф 44.0		
	ϕ 32 \pm 0.5		
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	X O X		
		Year	
ANGLE PROJECTION	备注:根据客户要求进行丝印.		: mm e : ±0.2
		i Olerance	∍ · ⊥U.∠

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8. Packing





70pcs

inner-tray:315X315X70mm 2layer/bundle





70pcs/layer 2layer/carton

QTY:140PCS SIZE:340x340x14CM

NINGBO KEPO ELECTRONICS CO.,LTD

CUSTOMER : SHARP

CUSTOMER P/N : RSPA00005FC8P

Q'TY : 140 PCS

Lot No : NKP× (Year)× (Month)× (Date)× (Flow No.)

MAKER P/N : KP50170SP1C40-5877

MADE IN CHINA

标贴内容

KEPO CHECKED
DATE

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9. Cautions for Use

- 1. When assemble the speaker, the frame brim must be hold by hand, and no outside force presses on frame, no sharp tool to damage the frame.
- 2. Speaker must be used under rated power, and the speaker may broken if it is used out of rated power.
- 3. Speaker must be keep away from water or liquid.
- 4. Speaker can't be under the high temperature and high humidity.

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	9. Revision	on				
Rev. No.	DATE	PAGE	DESCRIPTION			ВОМ
1.0	2010.12.30		Primary			