Specification for Speaker		Page	2/10		
		Revision No.	1.0		
Model No.	KP50170SP1C40-5877	Drawing No.	KFC5877		
CONTE	NTS				
1. Scope					
2. General					
3. Electrical and Acoustic Characteristics.					
4. Reliability Test					
5. Measure	ement Block Diagram & Response curve				
6. Structure					
7. Dimensions					
8. Packing					
9. Cautions for Use					
10. Revisio	in				

Ç	pecification for Speaker	Page	3/10		
	· ·	Revision No.	1.0		
Model No.	KP50170SP1C40-5877	Drawing No.	KFC5877		
1. Scope					
electrical	pecification is applied to the dynamic speaker acoustic product. act, rich sound	which is used all of th	e		

-- applications: mobile phone, PDA, notebook computer, etc. ..

## 2. General

- 2.1 Out-Diameter :  $\phi 50$  mm
- 2.2 Height : 17.5 mm
- 2.3 Weight : 50±5 g
- 2.4 Operating Temperature range:

-25 ~+70  $^\circ\!\mathrm{C}$  without loss of function

- 2.5 Store Temperature range:
  - -25 ~+70  $^\circ\!\mathrm{C}$  without loss of function

## 3. Electrical and Acoustic Characteristics.

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

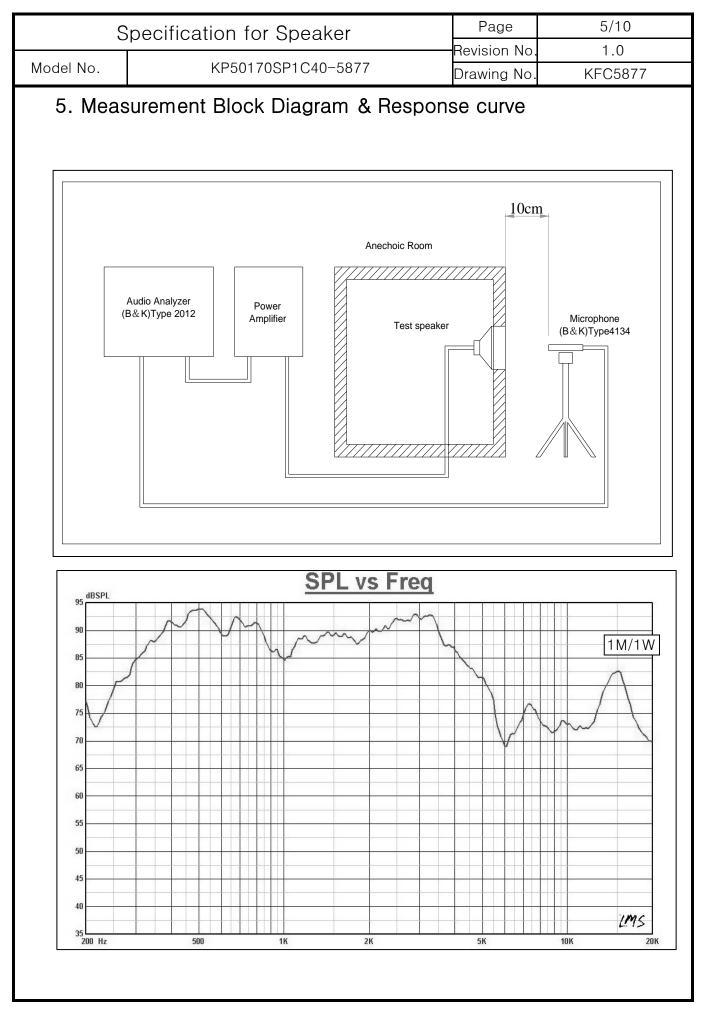
No	Items	Specification		
1	Impedance	8 $\Omega$ ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	88 dB $\pm$ 3dB ( 1W/1M AVG at 0.8,1.0,1.2,1.5 KHz)		
3	Resonance Frequency	400 Hz ± 20%		
4	Frequency Range	Fo ~5.0KHz		
5	Input Power	Rated 0.5 W / Max. 1.0 W		
6	Distortion	<10% Max. at rated power 2kHz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

C.	pecification for Speaker	Page	4/10
	KD501700D1040_5977	Revision No.	1.0
Model No.		Drawing No.	KFC5877

## 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).

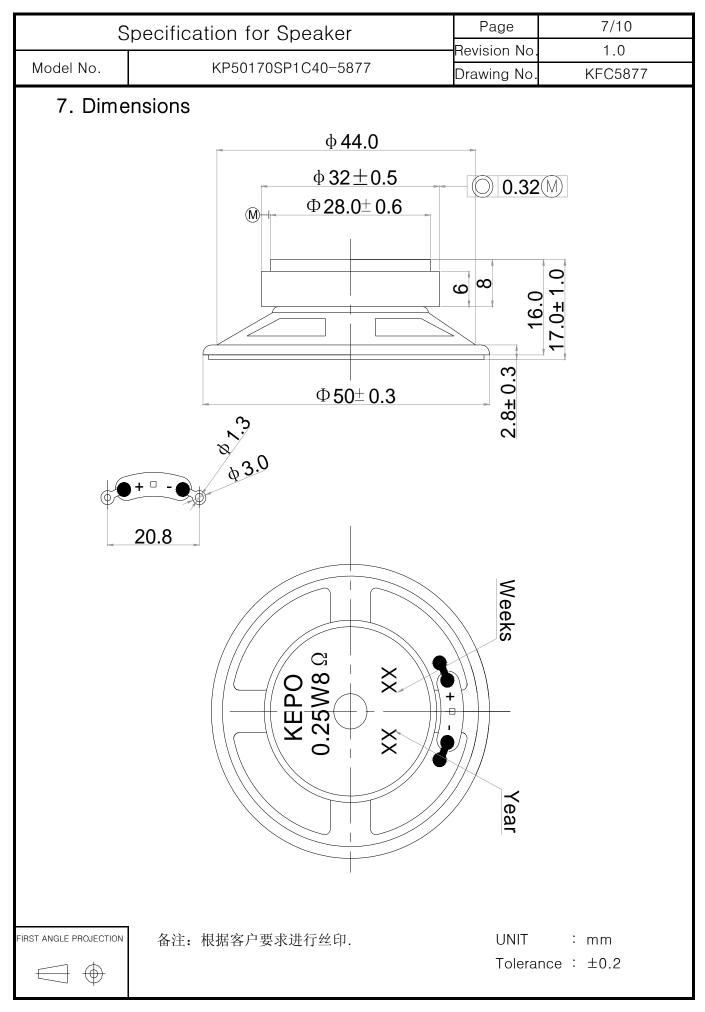
No	ltems	Specification
1	High Temperature Test	After being placed in a chamber with +70±5 °C for 240 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -25±5 ℃ for 240 hours and then being placed in natural 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. +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 $M\Omega$

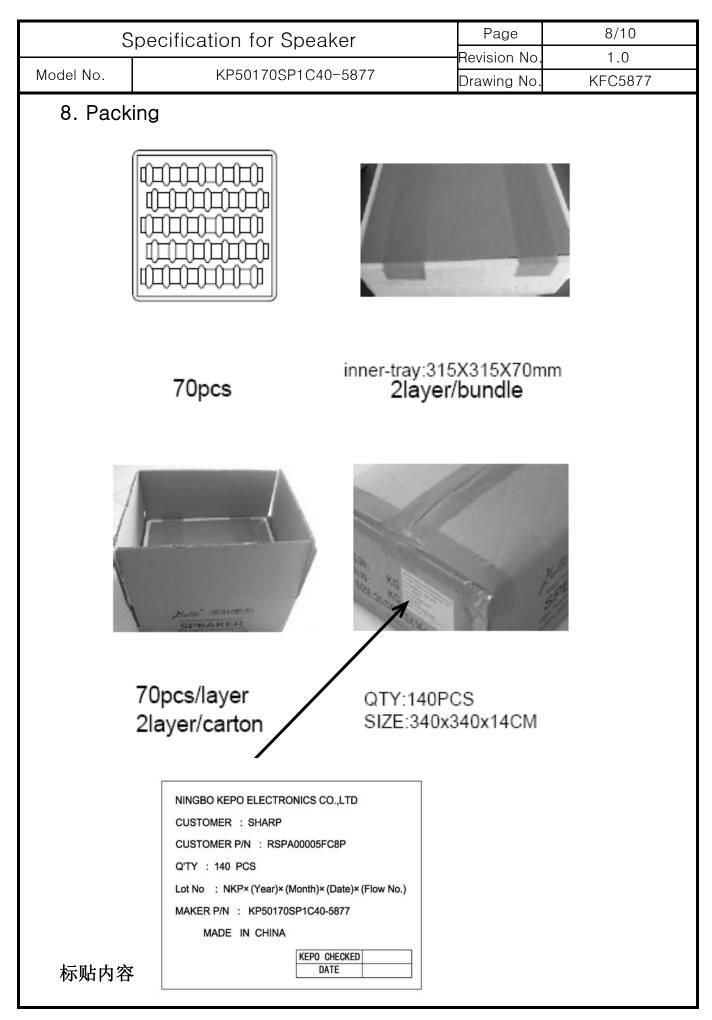


	S	Specification	for	Speaker	Page	6/10
			Revision No.	1.0		
Model No. KP50170SP1C40-5877					Drawing No.	KFC5877
8	6. Struc	eture		3 4 5   4 5   6 6		
7		/agnet	1	Y30		
6		and Top plate	1	SPCC		
5		Spider	1	silk irom		
4		pice Coil	1	Cone Paper +Foam edge	9	
3		rproof Cap	1	Paper		
2		proof Cone	1	Paper		
1		Gasket	1	Paper		
No.		rt Name	Q'ty	Material		Remarks

Ningbo Kepo Electronics Co.,Ltd.

http://www.chinaacoustic.com





S	pecification for Speaker	Page	9/10
	· · ·	Revision No.	1.0
Model No.	KP50170SP1C40-5877	Drawing No.	KFC5877

## 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.

 $2\,.\,{\rm Speaker}$  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.

Specific			cation for Speaker	Page	10/10
Мо	Model No.		KP50170SP1C40-5877	Revision No.	1.0
	9. Revisio	חר		Drawing No.	KFC5877
	9. 11641510				
Rev. No.	DATE	PAGE	DESCRIPTION		BOM
1.0	2010.12.30		Primary		