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		Revision No	1.4
Model No. KP57250SP1R16-6944		Drawing No	KFC6944

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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 : 57 mm 2.2 Height : 250 mm 2.3 Weight :  $70\pm5$  g

2.4 Operating Temperature range:

-40 ~+60°C without loss of function

2.5 Store Temperature range:

-40 ~+85 ℃ without loss of function

#### 3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	16 Ω $\pm$ 15% (1Vrms at 2.5KHz)		
2	Sound Pressure Level	>100 dB ( at 1W/1M at 1.2KHz)		
3	Resonance Frequency	1200 Hz ± 20% at 1V		
4	Frequency Range	700Hz ~2.8KHz		
5	Input Power	Rated 4 W / Max. 5 W		
6	Distortion	<10% Max. at 1.2kHz/4W		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 8V 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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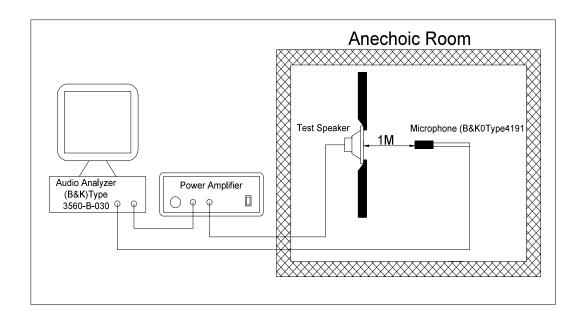
## 4. Reliability Test

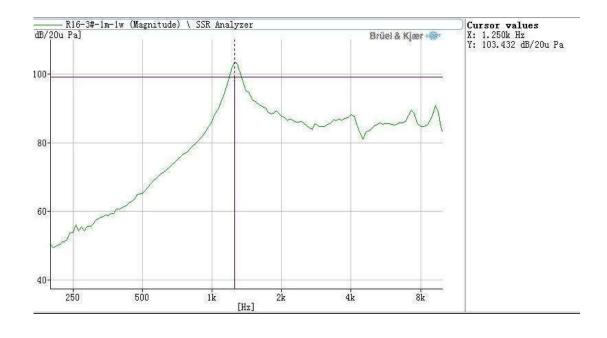
After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 4dB$ , and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with +85±3 ℃ 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 -40±3 ℃ 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 with85±5%R.H. at +85±5 ℃ for 96 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 +85 °C for 1 hour, then speaker shall be placed in a chamber at-40°C for 1 hour(1 cycle is the below diagram).  After10above cy ared after being placed in natural contact of the
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	A speaker is dropped from 1m in length on 75° inclination and a magnetic circuit of speaker is h to the restraint metal.  After the test, magnetic circuit should not drop Restraint Metal and speakr shall be measured.
7	Load test	After being applied loading white noise with input power 4W(8Vrms.) for 24 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 $\mbox{M}\Omega$
9	High Temp.input test	85°C input:1200Hz.4W.30min/on-30min/off.5 hours
10	Low Temp.input test	-40°C Input:1200Hz.4W.30min/on-30min/off.5 hours
11	koom temp.input test	Input:1200Hz.4W.30min/on-30min/off.150 hours

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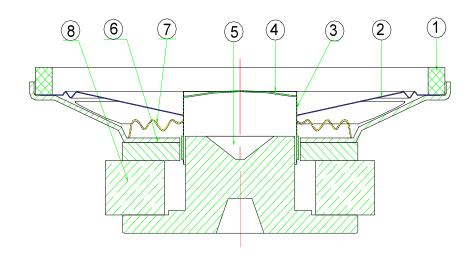
# 5. Measurement Block Diagram & Response curve





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## 6. Structure



8	8 magnet		Y30	
7	7 Spider		cotton yarn	
6	Frame and top plate	1	spcc	Plating Zn Cr3+
5	5 back plate		spcc	Plating Zn Cr3+
4	4 dust cap		Mylar	PEI
3	3 voice coil		PSV	
2	2 paper Cone		Mylar	PEI
1	1 Gasket		Rubber	
No.	Part Name	Q'ty	Material	Remarks

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7. Dime	## Provided HTML Representation 1		
	対水遊气化		
T ANGLE PROJECTION		UNIT Tolerance	: mm e: ±0.3

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## 8. Packing

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number ,quantity and outgoing inspection number.

There shall be no mechanical damage on products during tsansportation and/or in storage.



QTY:96PCS SIZE:370\*280\*140CM

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	9. Revision				
Rev. No.	DATE	PAGE	DESCRIPTION		ВОМ
1.0	2012-10-26		Primary		
1.1	2013-3-14		Change DP		
1.2	2014.10.23		change QTY:88pcs	5	
1.3	2015.10.06		change QTY:96pcs	5	
1.4	2021.8.6	7	Add waterproof of air	vents	