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Model No. : KP3642SP5-5463	Drawing No.	KFC5463

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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
 : 36 mm

 2.2 Height
 : 5 mm

 2.3 Weight
 : 8.1 g

2.4 Operating Temperature range:

-30~+70°C without loss of function

2.5 Store Temperature range:

-40~+85℃ without loss of function

#### 3. Electrical and Acoustic Characteristics.

Test condition:  $15 \sim 35$  °C,  $25\% \sim 85\%$  RH,  $860\sim1060$  mbar

No	Items	Specification		
1	Impedance	8 $\Omega$ ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	93 dB $\pm$ 3dB (0.1W/0.1M at 0.8,1.0.1.5,2kHz average)		
3	Resonance Frequency	400 Hz ± 20% 1.0V		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 0.5 W / Max. 0.8 W		
6	Distortion	<5% Max. at 1kHz/2Vrms		
7	Buss 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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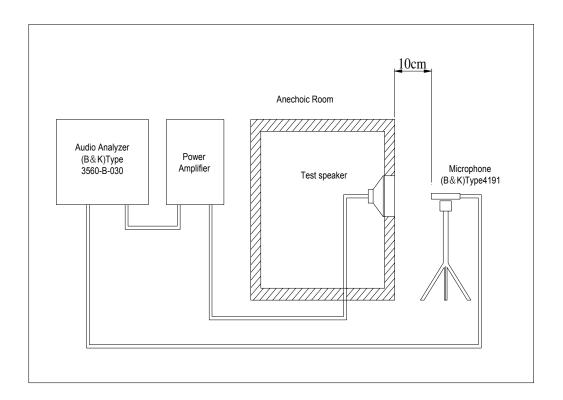
### 4. Reliability Test

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		
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 °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.		
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 -30°C for 1 hour(1 cycle is the below diagram).  After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour.  20 Sec.  +70°C  -30°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 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(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

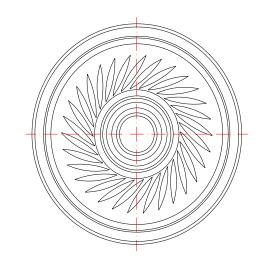


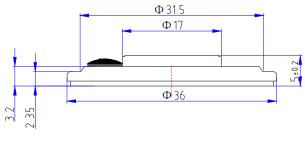


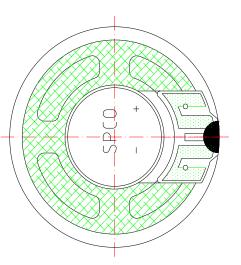
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Mod	el No. : KP3642SP5-54	Drawing No.	KFC5463		
	1 2 3		4 5	8	6
8	Screen	1	unwoven fabric		
7	Terminal	1	FR-4 Epoxy		
6	Frame	1	SPC		
5	Magnet	1	Nd-Fe-B		
3	Plate	1	SPC PEN		
2	Diaphragm Voice Coil	1			
	Part Name		Paper Material	Do	marks
No.	Part Name	Q'ty	Material	l Re	marks

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### 7. Dimensions







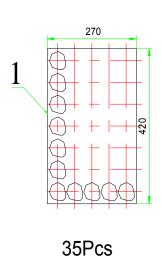
FIRST ANGLE PROJECTION

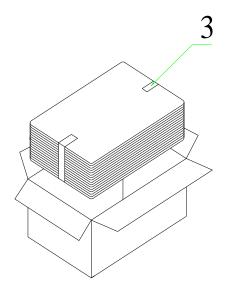


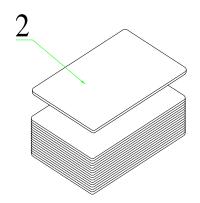
UNIT : mm Tolerance :  $\pm 0.2$ 

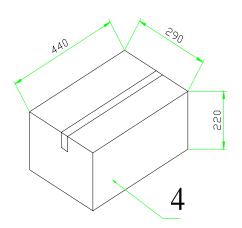
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# 8. Packing









QTY: 700Pcs 440 x290 x220

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	9. Revision	n				
Rev.	DATE	PAGE	DESCRIPTION			ВОМ
No.	DATE	TAGE	DESCRIPTION			DOW
1.0	2008-11-11		Primary			
1.1	2008-11-18		Change wire			