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	Revision No.	1.0
Model No. : KP3246SP1F3-5222	Drawing No.	KFC5222

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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 : 32 mm
 2.2 Height : 4.65 mm
 2.3 Weight : 8 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: $15 \sim 35$ °C, $25\% \sim 85\%$ RH, $860\sim1060$ mbar

No	Items	Specification		
1	Impedance	$8~\Omega~\pm 15\%~$ (1Vrms at 2KHz)		
2	Sound Pressure Level	92 dB \pm 3dB (0.1w/0.1m at AVG 0.8,1.0,1.2,1.5KHz)		
3	Resonance Frequency	850 Hz ± 20%		
4	Frequency Range	Fo ~6KHz		
5	Input Power	Rated 1.5 W / Max. 1.8 W		
6	Distortion	5% Max. at 1kHz/0.894Vrms		
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 3.46V 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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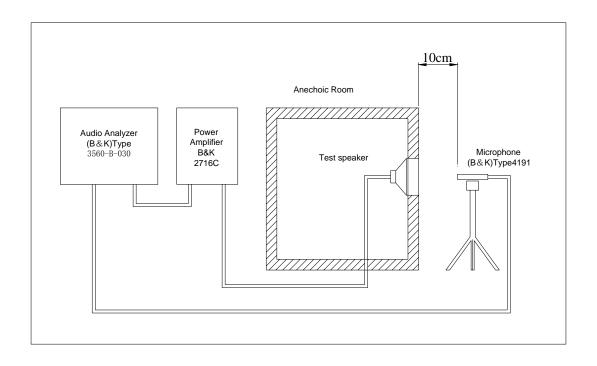
4. Reliability Test

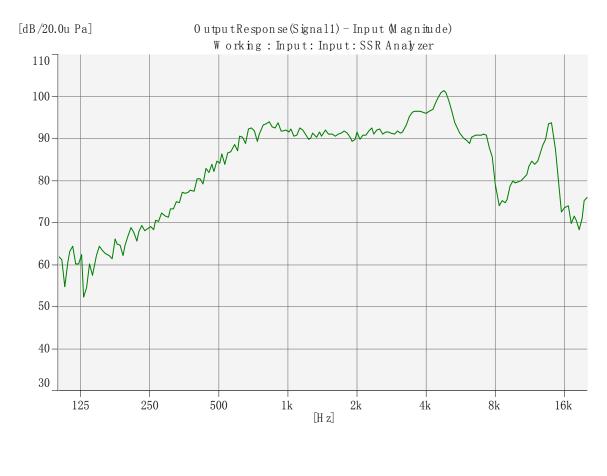
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

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 ℃ 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 ℃ 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 +60 °C for 0.5hour, then speaker shall be placed in a chamber at -20 °C for 0.5hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec 1 cycle +60 °C -20 °C		
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 1.5W(3.46Vrms.) 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



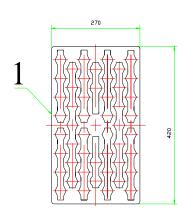


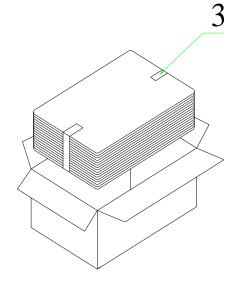
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	6. Structure 1 2 6		3 4	7 5	
7	Screen	1	3B		
6	Terminal	1	Epoxy PCB		
5	Frame	1	SPC		
4	Magnet	1	Nd-Fe-B		
3	Plate	1	SPC		
2	Diaphragm	1	PET		
1	Voice Coil	1	Copper		
No.	Part Name	Q'ty	Material	Re	emarks

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7. Dimensions	
	Housing:Molex 51021-0200—
	Terminal:Molex 50058-8000 —
Diaphragm (Black)	
	Lot No
	9.2 5.6 8 Ω 1.5W - +
Φ;	
-	ex) 8088 :the year 200808:the Week
	Black(-) (UL1571 AWG#28)
	Red(+) (UL1571 AWG#28) 5-8 Twist
ST ANGLE PROJECTION	UNIT : mm Tolerance : ±0.

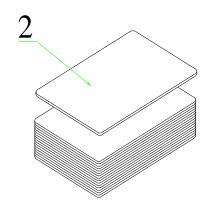
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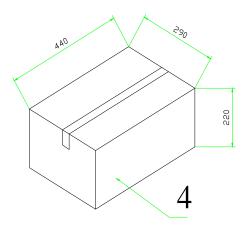
8. Packing





50Pcs





QTY: 800Pcs 440 x290 x220

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9. Revision						
Rev. No.	DATE	PAGE	DESCRIPTION			вом
1.0	2009-7-28		Primary			