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	Revision No.	1.0
Model No. : KP3642SP4F650C-4542	Drawing No.	KFC4542

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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 : 5.6 mm
2.3 Weight : 5.8 g
2.4 Operating Temperature range:

-20~+60°C without loss of function

2.5 Store Temperature range:

-30~+70°C 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 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	92 dB ± 3dB (1W/0.5M/fo Hz~4.5KHz Average)		
3	Resonance Frequency	650 Hz ± 20%		
4	Frequency Range	Fo ~4.5KHz		
5	Input Power	Rated 1 W / Max. 2 W		
6	Distortion	<5% Max. at 2kHz/2Vrms		
7	Buss and Rattle	Should not be audible buzzes, rattles when the 2.83V 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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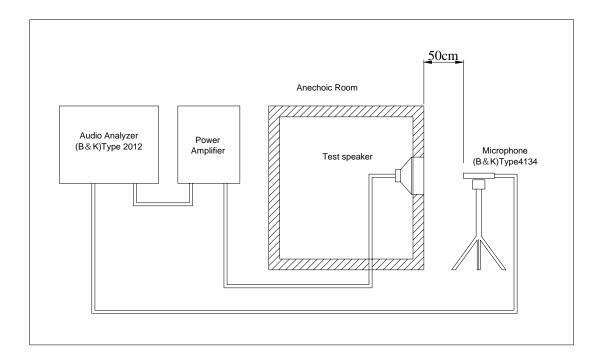
4. Reliability Test

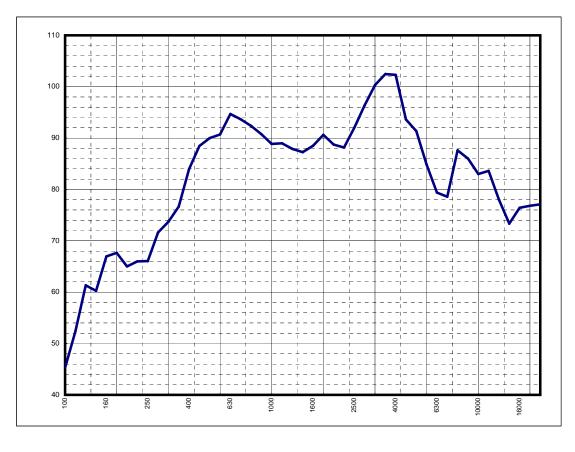
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with +70±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 °C for 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 1 hour, then speaker shall b placed in a chamber at -20°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. +60°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 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 1W(2.83Vrms.) 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

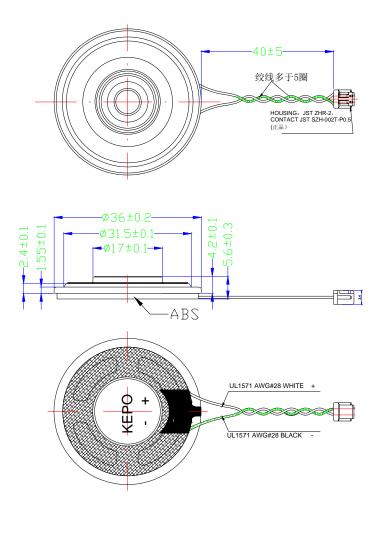




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Model No.	: KP3642SP4F65	50C-45	42	Drawing No.	KFC4542
6. Si	Tructure 6	3	2	8	
10					
9					
8	Screen		2B		
7	Gasket	1	ABS		
6	Terminal	1	PCB		
5	Frame	1	SPCC		
4	Magnet	1	Nd-Fe-B		
3	Plate	1	SPCC		
2	Diaphragm	1	Film		
1	V-coil	1	Copper	with	n paper
No.	Part Name	Q'ty	Material		marks

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7. Dimensions

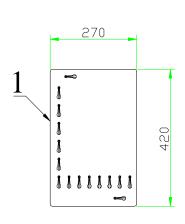


FIRST ANGLE PROJECTION

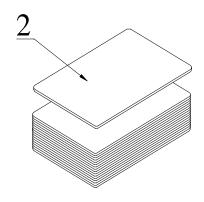
UNIT : mm
Tolerance : ±0.2

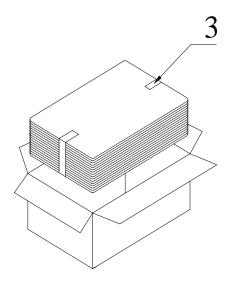
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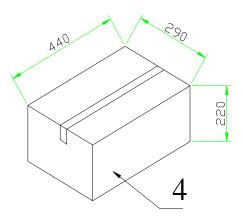
8. Packing



35Pcs







QTY: 500Pcs 440 x290 x220