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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 : 48X30 mm
 2.2 Height : 5.5 mm
 2.3 Weight : 15 g

2.4 Operating Temperature range:

-20~+50°C without loss of function

2.5 Store Temperature range:

-30~+60°C without loss of function

3. Electrical and Acoustic Characteristics.

Test condition: $15 \sim 35 \,^{\circ}\mathrm{C}$, $25\% \sim 85\% \,^{\circ}\mathrm{RH}$, $860 \sim 1060 \,^{\circ}\mathrm{mbar}$

No	Items	Specification		
1	Impedance	$8~\Omega~\pm 15\%~$ (1Vrms at 2KHz)		
2	Sound Pressure Level	91 dB ± 3dB (0.1w/0.1m at 1.0;1.2;1.5;2.0kHz average)		
3	Resonance Frequency	850 Hz ± 20%		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 0.8 W / Max. 1 W		
6	Distortion	10% Max. at 1kHz/1Vrms		
7	Buzz and Rattle	Should not be audible buzzers, rattles when the 2.53V 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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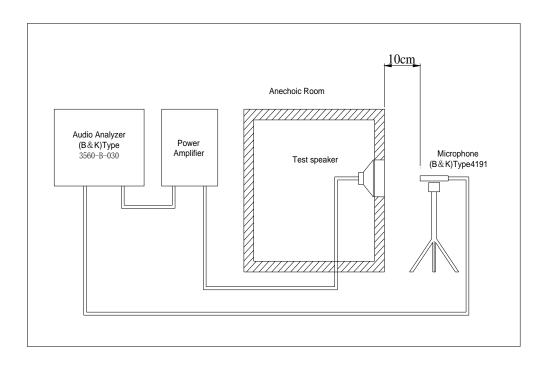
4. Reliability Test

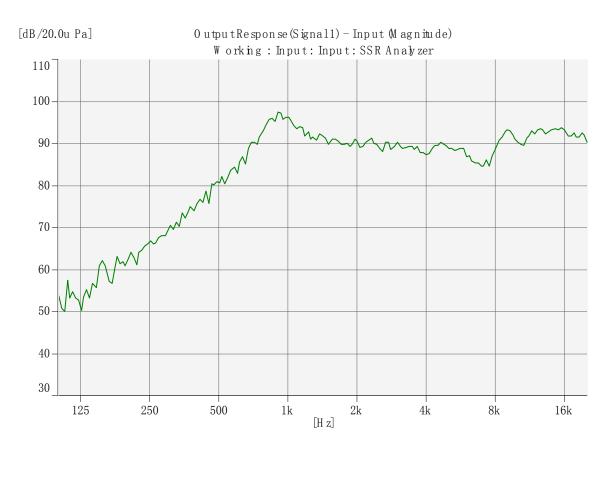
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with +60±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 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 +50°C for 1 hour, then speaker shall be placed in a chamber at -20°C for 1 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec +50°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 0.8W(2.53Vrms.) 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

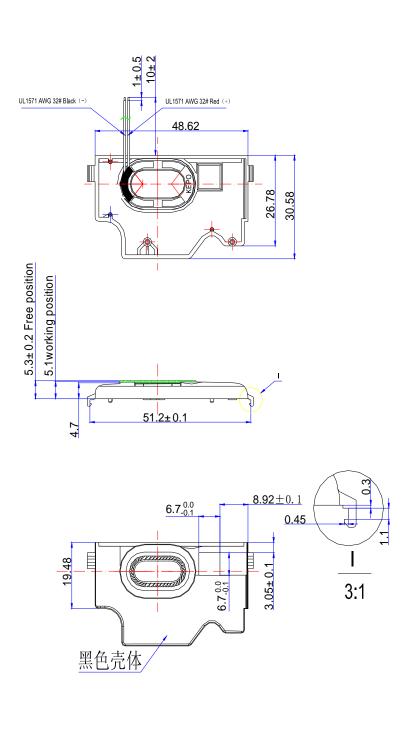




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	6. Structure			Drawing No.	KFC6276
	1) 2 3 4 5	9	6 7		
9	YOKE	1	SPCC		
8	Terminal	1	Epoxy PCB		
7	Gasket1	1	PE		
6	Frame	1	ABS		
5	Magnet	1	Nd-Fe-B		
4	Plate	1	SPC		
3	Voice Coil	1	Copper		
2	Diaphragm	1	PEN	na)	4. 主体
1 No	Shell	1 O'ty	ABS		色壳体 marka
No.	Part Name	Q'ty	Material	Re	marks

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7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm Tolerance : ± 0.2

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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.

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9. Revision						
Rev. No.	DATE	PAGE	DESCRIPTION			вом
1.0	2011-3-7		Primary			