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Model No. : KPB3701-5377	Drawing No.	KFC5377

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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 : 37 mm
 2.2 Height : 20.6 mm
 2.3 Weight : 5.3 g

2.4 Operating Temperature range:

-40 ~+85 °C without loss of function

2.5 Store Temperature range:

-40 ~+90 ℃ without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	50 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1w/0.1m at average 0.8, 1.0, 1.2, 1.5K)		
3	Resonance Frequency	550 Hz ± 20%		
4	Frequency Range	Fo ~7KHz		
5	Input Power	Rated 0.3 W / Max. 0.5 W		
6	Distortion	10% Max. at 1kHz 0.3W		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 3.87V 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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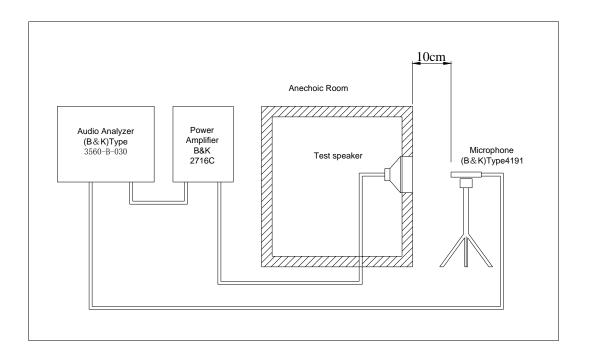
4. Reliability Test

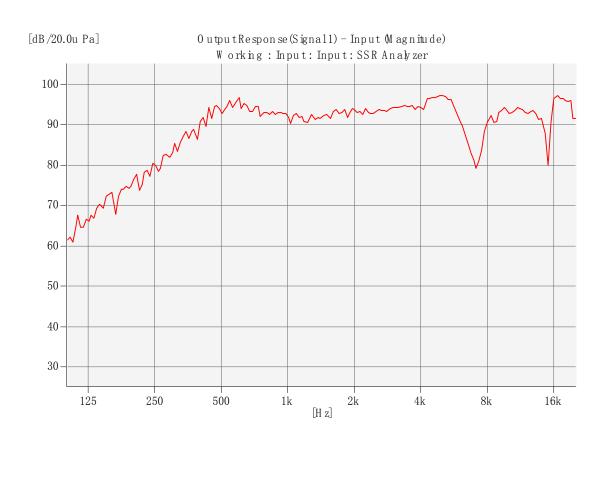
After test(1~7item), the speaker S.P.L. difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification		
1	High Temperature Test	After being placed in a chamber with +90 $\pm 3~^{\circ}$ 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 -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 ℃ 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). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec +85 °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 0.3W(3.87Vrms.) 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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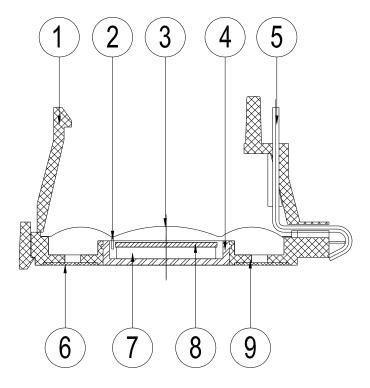
5. Measurement Block Diagram & Response curve





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6. Structure



9	Frame	1	PBT	
8	Plate	1	SPCC	
7	Magnet	1	Nd-Fe-B	
6	Screen	1	NET180	
5	PIN	1	H62	
4	Yoke	1	SPCC	
3	Diaphragm	1	PEI	
2	Voice Coil	1	Copper	
1	Cap	1	PA66	
No.	Part Name	Q'ty	Material	Remarks

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S K K K K K K K K K K K K K K K K K K K	ALO1 (11) 2,8±0.1	
16,5±0.3 4,1±0.1		
13,8±0.05 11±0.05		
T ANGLE PROJECTION	UNIT : mr	m 0.2

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8. Packing		

