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Model No. : KP3051SP1R4-5252	Drawing No.	KFC5252

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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 : 30 mm
2.2 Height : 5.1 mm
2.3 Weight : 7 g
2.4 Operating Temperature range:

-20~+60°C without loss of function

2.5 Store Temperature range:

-30~+75°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	4 Ω ± 15% (1Vrms at 1.5KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M- at 0.8k;1k;1.2k;1.5kHz AVE)		
3	Resonance Frequency	700 Hz ± 20%		
4	Frequency Range	Fo ~10KHz		
5	Input Power	Rated 1 W / Max. 1.5 W		
6	Distortion	5% Max. at 1kHz/1Vrms		
7	Buzz 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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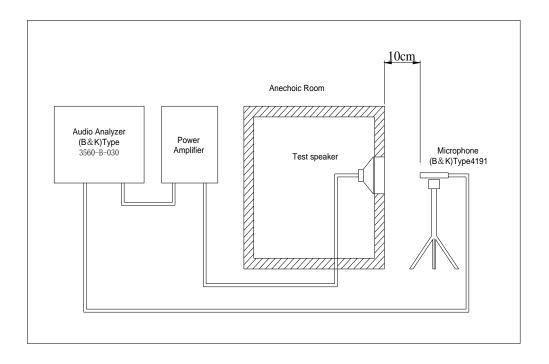
4. Reliability Test

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 +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 °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 +60°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 +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(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 $\text{M}\Omega$		

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5. Measurement Block Diagram & Response curve

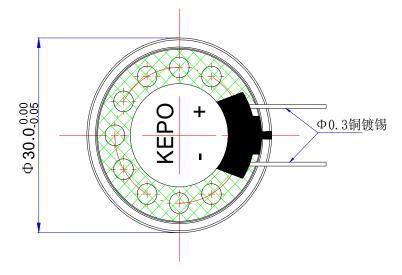


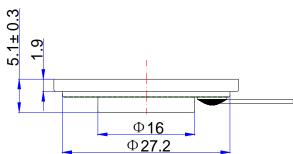


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	1 2 7		3 4 5	8	
8	Screen	1	Net		
7	Terminal	1	Epoxy PCB		
6	Frame	1	SPC		
5	Magnet	1	Nd-Fe-B		
4	Plate	1	SPC		
3	Diaphragm	1	PET		
2	Voice Coil	1	Copper		
1	Gasket	1	Paper		
No.	Part Name	Q'ty	Material	Re	marks

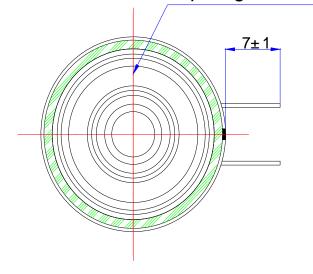
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7. Dimensions





Diaphragm:transparence



FIRST ANGLE PROJECTION

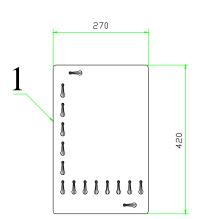


UNIT : mm

Tolerance : ± 0.2

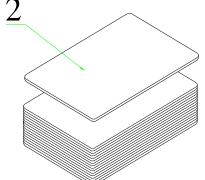
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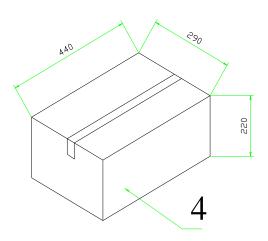
8. Packing



50Pcs







QTY: 800Pcs 440 x290 x220