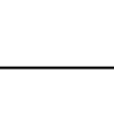


SPECIFICATION											
Customer :	Simcom										
Applied To :											
Product Name :	Speaker										
Model Name :	KP3040SP1-2084										
Drawing No. :	KFC2084										
Signature of Approval											
Signature of KEPO	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; padding: 5px;">Approved by</th> <th style="width: 25%; padding: 5px;">Checked by</th> <th style="width: 25%; padding: 5px;">Issued by</th> <th style="width: 25%; padding: 5px;">Date</th> </tr> </thead> <tbody> <tr> <td style="height: 60px;"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Approved by	Checked by	Issued by	Date				
Approved by	Checked by	Issued by	Date								



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1. Scope

This specification is applied to the two side 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 : Ø30 mm

2.2 Height : 4.0mm

2.3 Weight : 6.0gr.

2.4 Operating Temperature range:

-20~+60℃ without loss of function

2.5 Store Temperature range:

-25~+60℃ without loss of function

3. Electrical and Acoustic Characteristics.

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

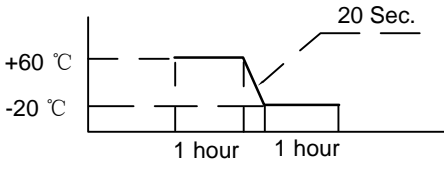
3.1 Speaker

	Items	Specification
1	Impedance	8 Ω ± 15%(at 1Vrms,1.5kHz)
2	Sound Pressure Level	90dB ± 3dB(1kHz/0.1W/0.1M)
3	Resonance Frequency	650Hz ± 15%
4	Frequency Range	F ₀ ~ 7.0kHz
5	Input Power	Rated 0.8W / Max. 1.5W
6	Distortion	<10% Max. at 2kHz/2Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2.5V 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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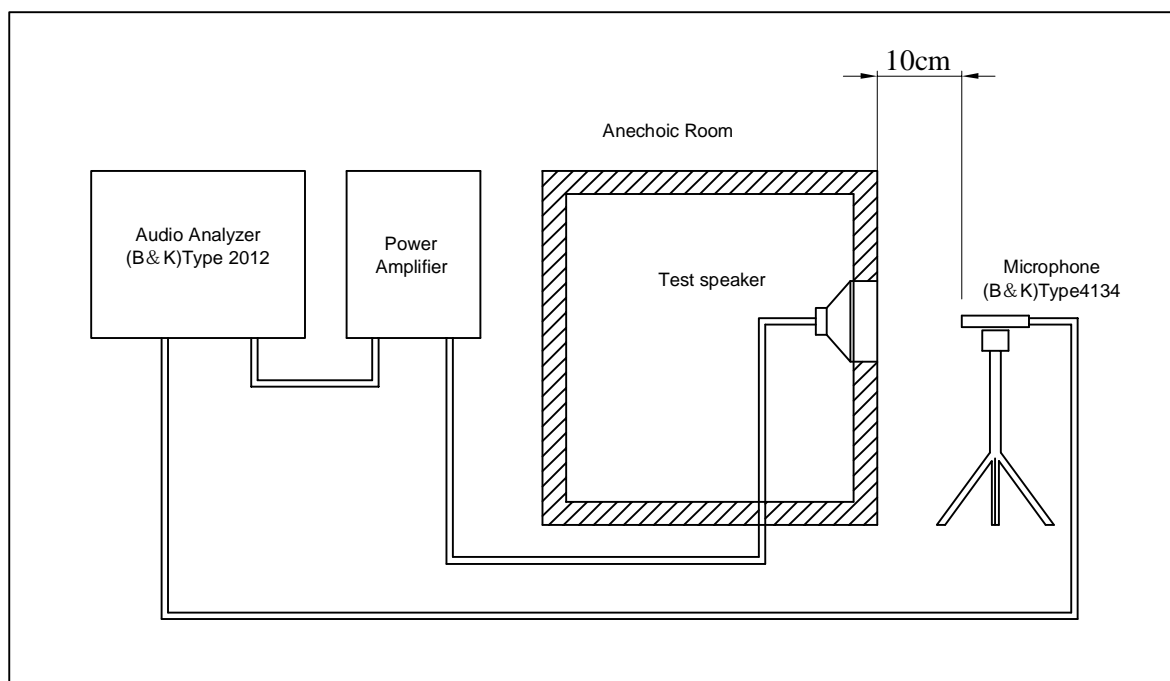
4. Reliability Test

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

	Item	Specification
1	High Temperature Test	After being placed in a chamber with $+60\pm 3\text{ }^{\circ}\text{C}$ 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 $-20\pm 3\text{ }^{\circ}\text{C}$ 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 60 to 90%R.H. at $+40\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	<p>After being placed in a chamber at $+60\text{ }^{\circ}\text{C}$ for 1 hour, then speaker shall be placed in a chamber at $-20\text{ }^{\circ}\text{C}$ for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour.</p> 
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz 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(2.5Vrms.) 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 MΩ

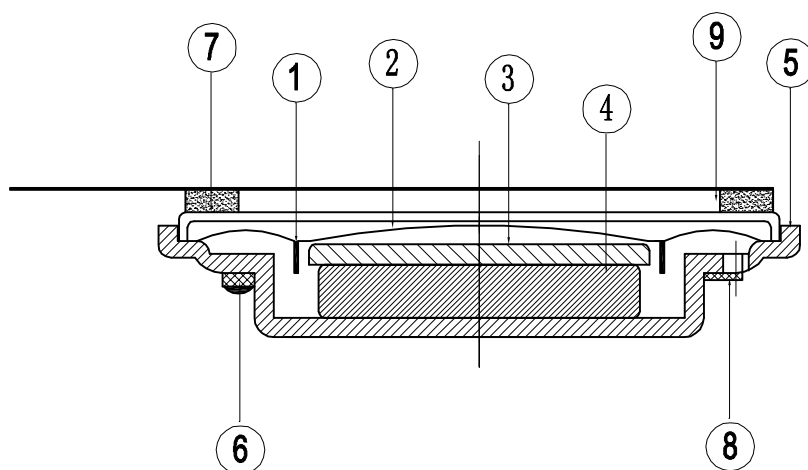
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5. Measurement Block Diagram & Response curve



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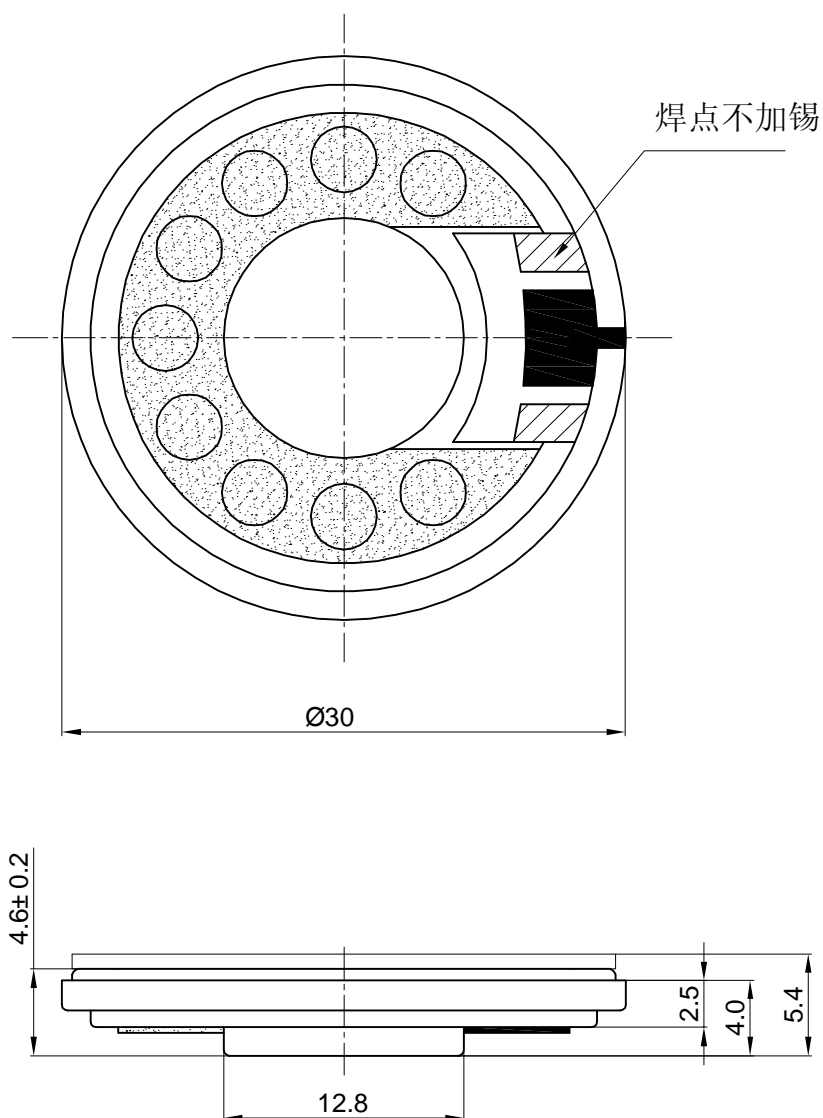
6. Structure



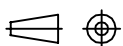
9	Gasket	1	unwoven fabric	800+PSR0.5+800+2B
8	Screen	1	Fabric	
7	Cap	1	PBT	
6	Terminal	1	Epoxy PCB	
5	Frame	1	SPC	
4	Magnet	1	Nd-Fe-B	
3	Plate	1	SPC	
2	Diaphragm	1	PET	
1	Voice Coil	1	Copper	
No.	Part Name	Q'TY	Material	Remarks

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7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.5

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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 transportation and/or in storage.

