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	Revision No.	1.1
Model No. : KP1506R1-M699-4587	Drawing No.	KFC4587

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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 : 15x6 mm

2.2 Height : 2.7 mm

2.3 Weight : 0.5 g

2.4 Operating Temperature range:

-20~+70°C without loss of function

2.5 Store Temperature range:

-40~+85°C without loss of function

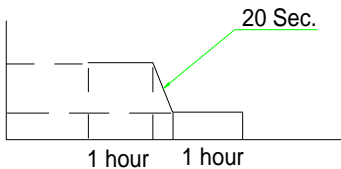
3. Electrical and Acoustic Characteristics.

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

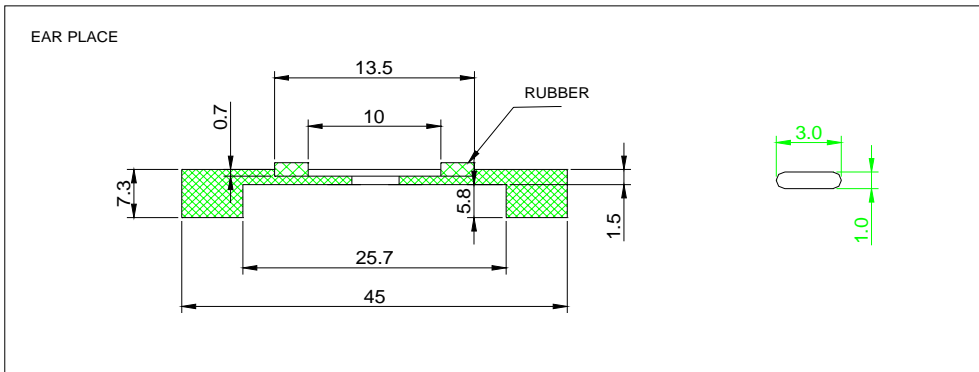
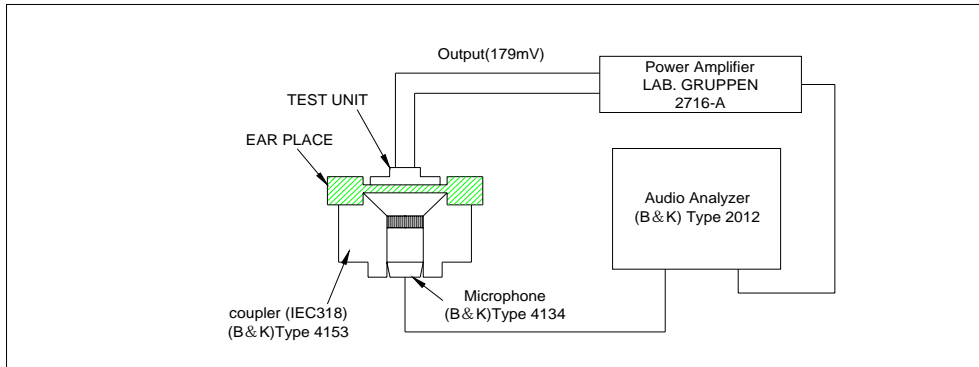
No	Items	Specification
1	Impedance	32 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	110 dB ± 3dB (179mV at 1kHz)
3	Resonance Frequency	
4	Frequency Range	300 ~ 3400 Hz
5	Input Power	Rated 0.03 W / Max. 0.05 W
6	Distortion	<10% Max. at 2kHz/2Vrms
7	Buss and Rattle	Should not be audible buzzes,rattles when the 0.98V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

4. Reliability Test

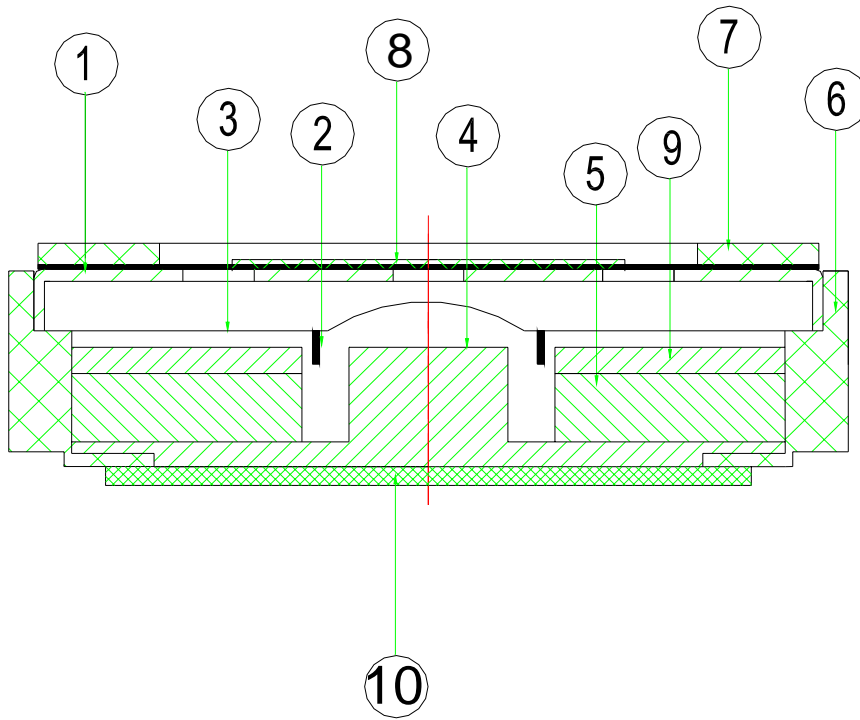
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3\text{dB}$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+85\pm 3\text{ }^\circ\text{C}$ for 96 hours and then be placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-40\pm 3\text{ }^\circ\text{C}$ for 96 hours and then be 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 $+40\pm 2\text{ }^\circ\text{C}$ 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 $+70\text{ }^\circ\text{C}$ 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). After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour.</p>  <p style="text-align: center;"> $+70\text{ }^\circ\text{C}$ $-20\text{ }^\circ\text{C}$ </p> <p style="text-align: center;"> 1 hour 20 Sec. 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 receiver when mounted in the jig which weight 85g~100g, shall with stand 10 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 0.03W(0.98Vrms.) 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 $1\text{ M}\Omega$

5. Measurement Block Diagram & Response curve



6. Structure



12				
11				
10	Cushion	1	paper	双面胶片
9	Plate	1	SPC	
8	Screen	1	net	
7	Gasket	1	unwoven fabric	800+2B+800+PSR0.3
6	Frame	1	PBT	
5	Magnet	1	Nd-Fe-B	
4	Yoke	1	SPC	
3	Diaphragm	1	PEI	
2	Voice Coil	1	Copper	
1	Cap	1	SUS304	
No.	Part Name	Q'ty	Material	Remarks

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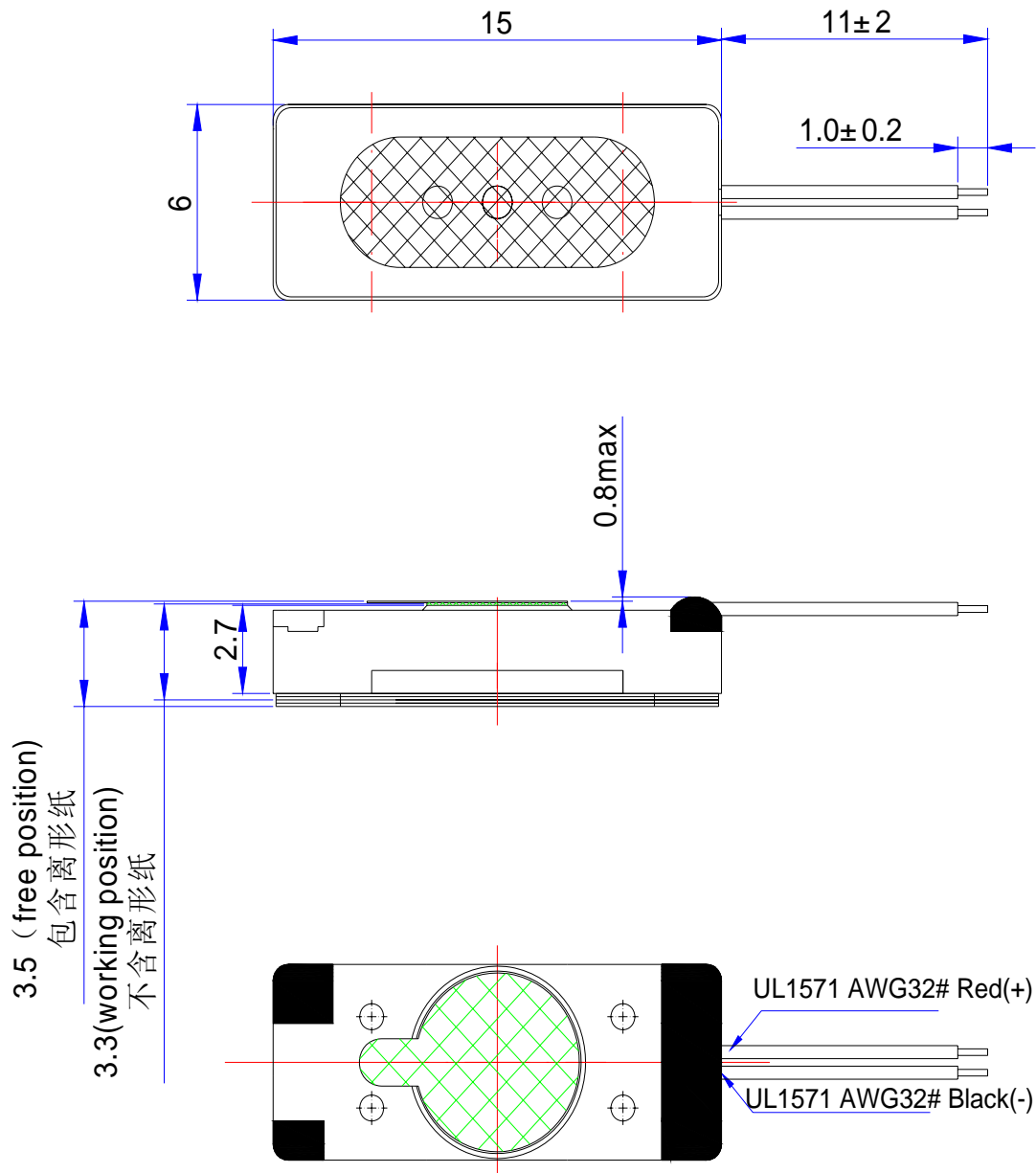
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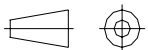
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7. Dimensions



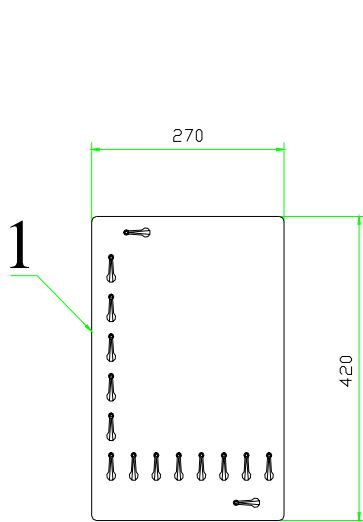
FIRST ANGLE PROJECTION



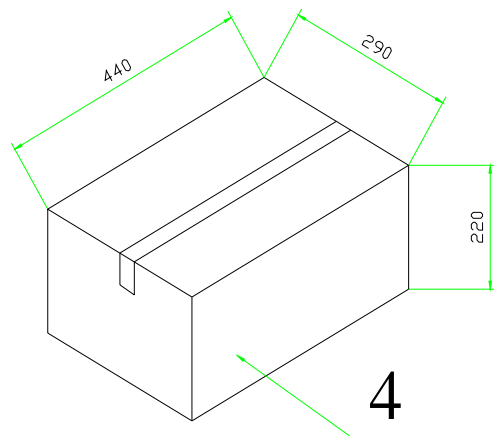
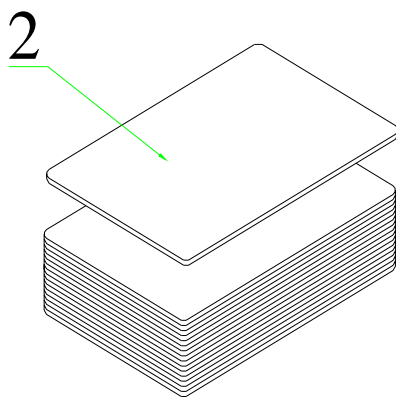
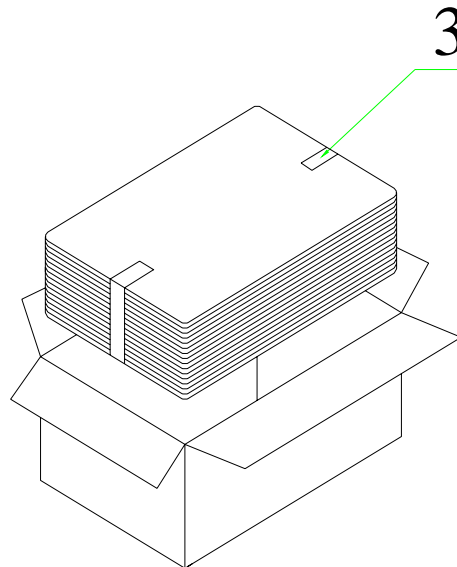
UNIT : mm

Tolerance : ± 0.2

8. Packing



100Pcs



QTY: 2000Pcs
440 x290 x220

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9. Revision

Rev. No.	DATE	PAGE	DESCRIPTION	BOM
1.0	2009.02.28		Primary	
1.1	2009.03.23		Gasket change	