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<u> </u>	Revision No.	1.0
Model No. : KP1710M1-6279	Drawing No.	KFC6279

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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 : 17x10 mm
 2.2 Height : 3.7 mm
 2.3 Weight : 1.2 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

3.1 Speaker

No	Items	Specification		
1	Impedance	8 Ω ± 15% (at 1Vrms,1.5kHz)		
2	Sound Pressure Level	86 dB ± 3dB (at 1kHz/0.1W/0.1M)		
3	Resonance Frequency	1000 Hz ± 20%		
4	Frequency Range	F0 ~ 10.0kHz		
5	Input Power	Rated 0.5 W / Max. 0.8 W		
6	Distortion	<10% Max. at 2kHz/2Vrms		
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.		

3.2 Receiver

No	Items	Specification		
1	Impedance	8 Ω \pm 15% (at 1Vrms,1.5kHz)		
2	Sound Pressure Level	118 dB \pm 3dB (1kHz/100mV)		
3	Frequency Range	300~3400Hz		
4	Input Power	Rated 0.01 W / Max. 0.03 W		
5	Distortion	<3% Max. at 1kHz/1Vrms		
6	Buzz and Rattle	Should not be audible buzzes, rattles when the 0.28V sine wave signal swept at frequency range.		

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4. Reliability Test

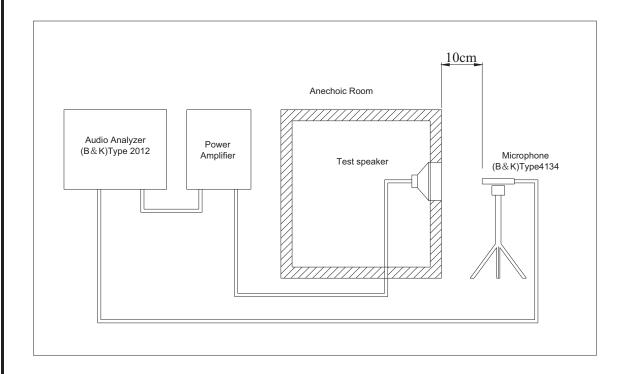
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

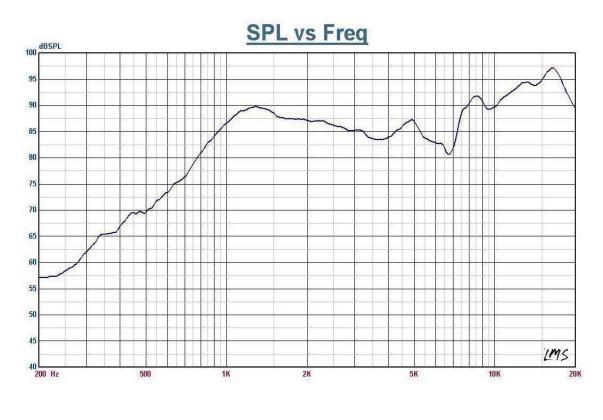
No	Items	Specification
1	High Temperature Test	After being placed in a chamber with +85±3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -40±3 ℃ for 96 hours and then being placed in natural 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 \pm 2 °C for 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 +70°C for 1 hour, then speaker shall b placed in a chamber at -20°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. +70°C -20°C 1 cycle
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 0.5W(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 $M\Omega$

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5. Measurement Block Diagram & Response curve

Speaker

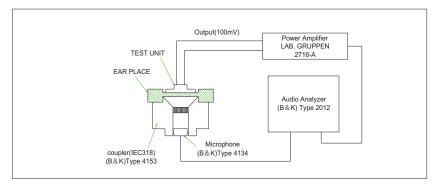


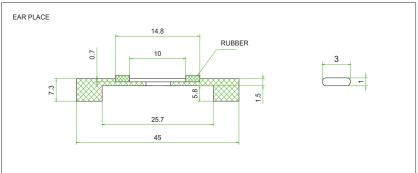


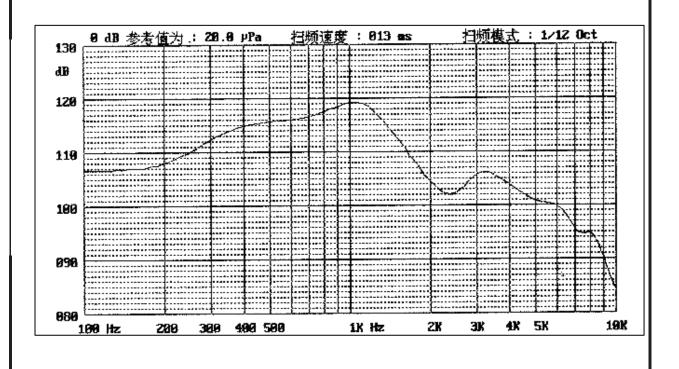
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6. Measurement Block Diagram & Response curve

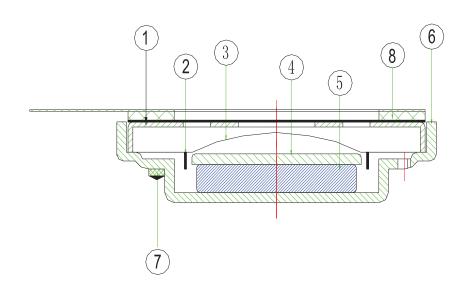
Receiver







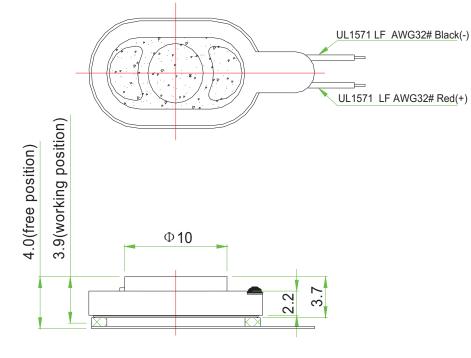
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7. Structure		

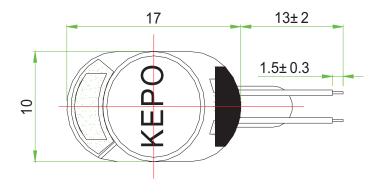


8	Gasket	1	unwoven fabric	
7	Terminal	1	EPOXY PCB	
6	Frame	1	SPCC	
5	Magnet1	1	Nd-Fe-B	
4	Plate1	1	Spcc	
3	Diaphragm	1	PEI	
2	Voice Coil	1	Copper	
1	Cap	1	SUS304	
No.	Part Name	Q'ty	Material	Remarks

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8. Dimensions





FIRST ANGLE PROJECTION

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UNIT : mm

Tolerance : ± 0.2