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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 : 54x18 mm
- 2.2 Height : 4.1 mm
- 2.3 Weight : 6 g
- 2.4 Operating Temperature range:

-20~+50℃ without loss of function

2.5 Store Temperature range:

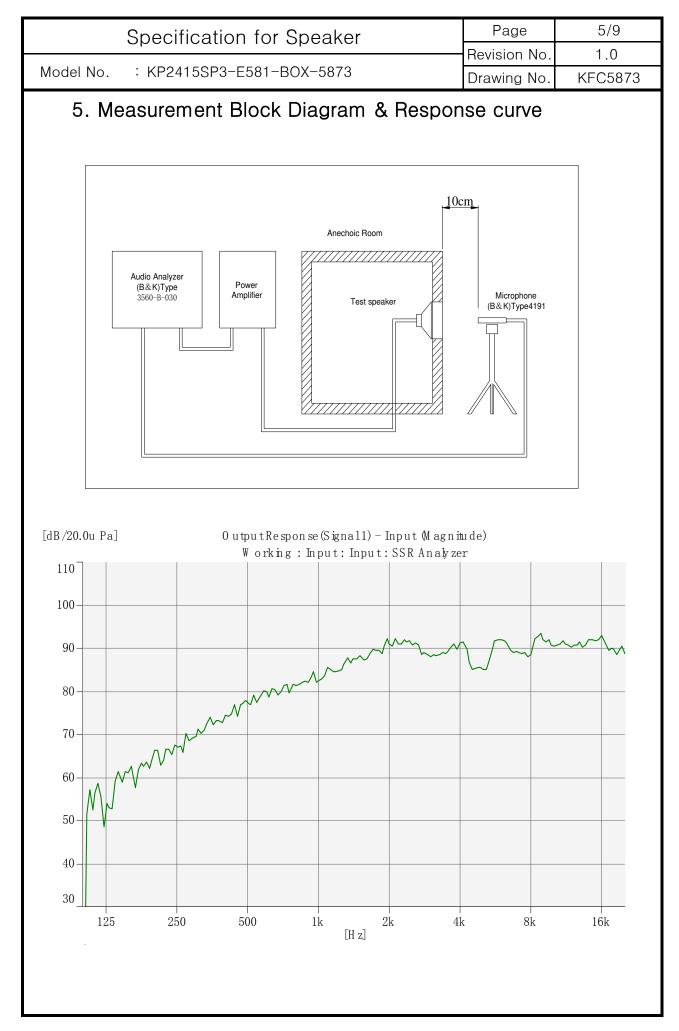
-30~+60 °C without loss of function

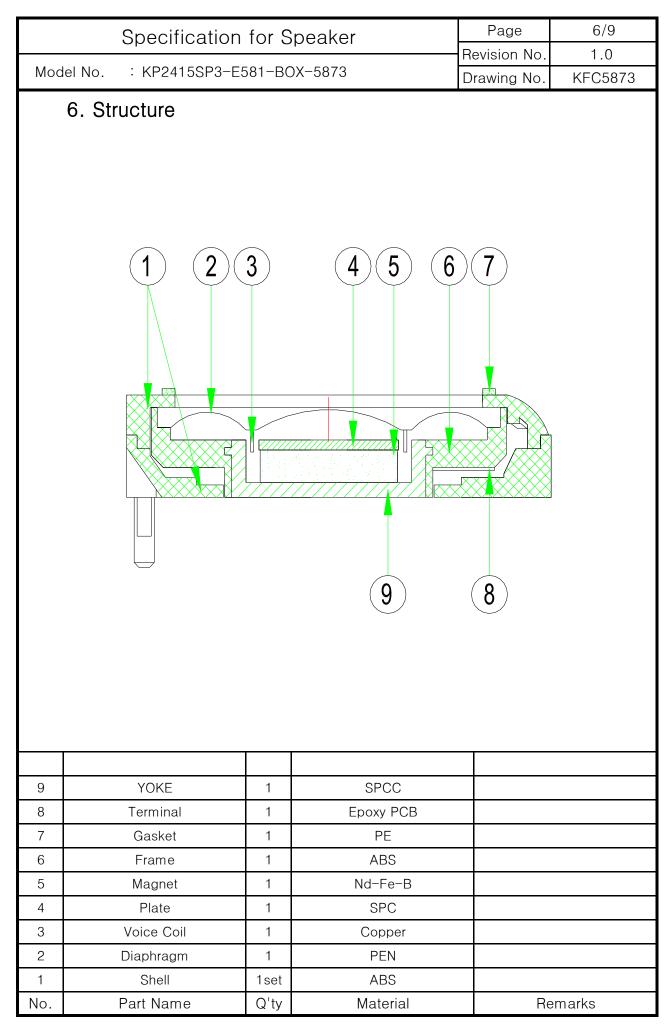
3. Electrical and Acoustic Characteristics.

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

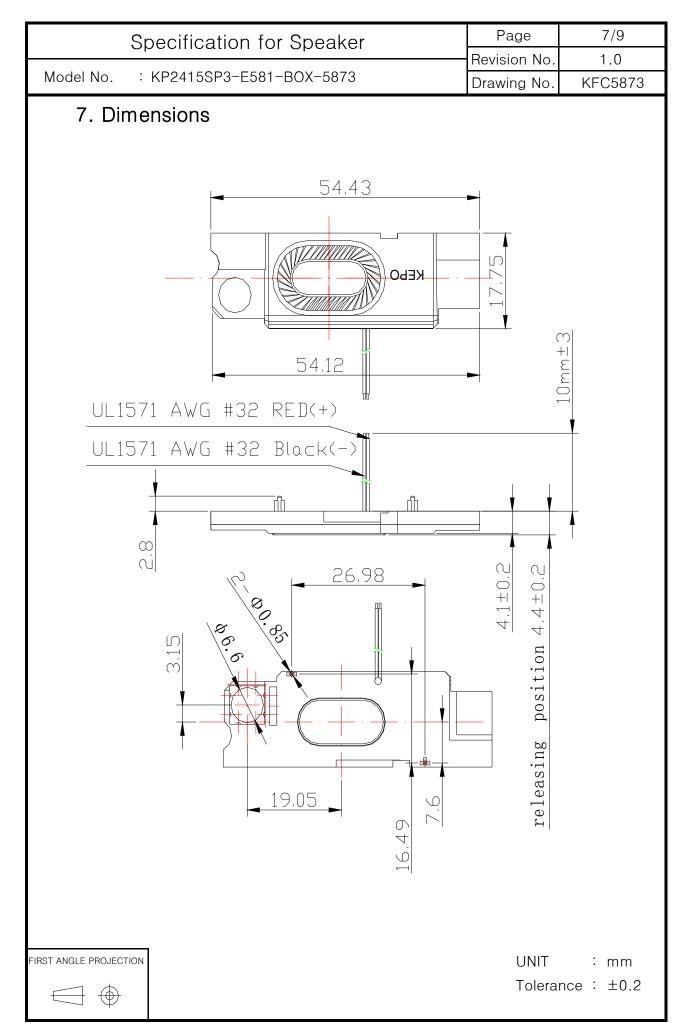
No	ltems	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 2KHz)		
2	Sound Pressure Level	88 dB ± 3dB (0.1w/0.1m at 1.0;1.2;1.5;2.0kHz average)		
3	Resonance Frequency	550 Hz ± 20%		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 0.8 W / Max. 1 W		
6	Distortion	10% Max. at 1kHz/1Vrms		
7	Buzz and Rattle	Should not be audible buzzers,rattles when the 2.53V 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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	appearance not ex	est n), the speaker S.P.L . difference shall be kist any change to be harmful to normal op damages and especially distortion).		nd the
No	ltems	Specificatio	n	
1	High Temperature Test	After being placed in a chamber with +6 then being placed in natural condition for measured.		
2	Low Temperature Test	After being placed in a chamber with -30 ± 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 °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 +50 °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 +50 °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 0.8W(2.53Vrms.) 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 $M\Omega$		





Ningbo Kepo Electronics Co.,Ltd.



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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 tsansportation and/or in storage.

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