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	· KD10070D2E1000-4000	Revision No.	1.3	
		Drawing No.	KFC4298	

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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 :	: 9.9 mm
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2.2 Height : 2.8 mm

2.3 Weight : 0.6 g

2.4 Operating Temperature range:

-30~+70 °C without loss of function

2.5 Store Temperature range:

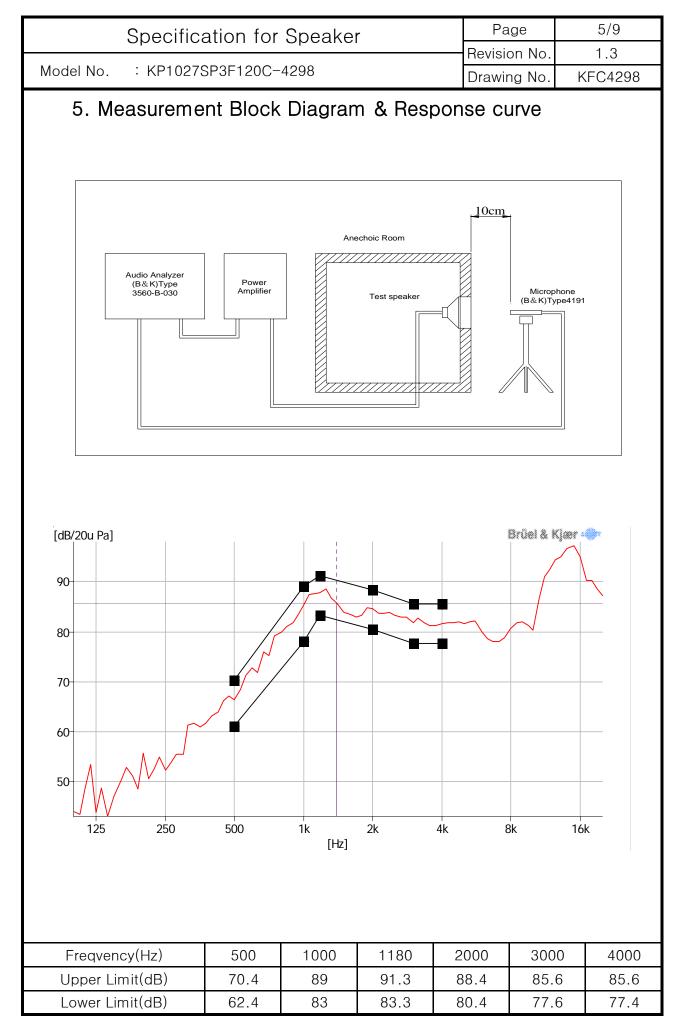
 $-40 \sim +85$ °C without loss of function

3. Electrical and Acoustic Characteristics.

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

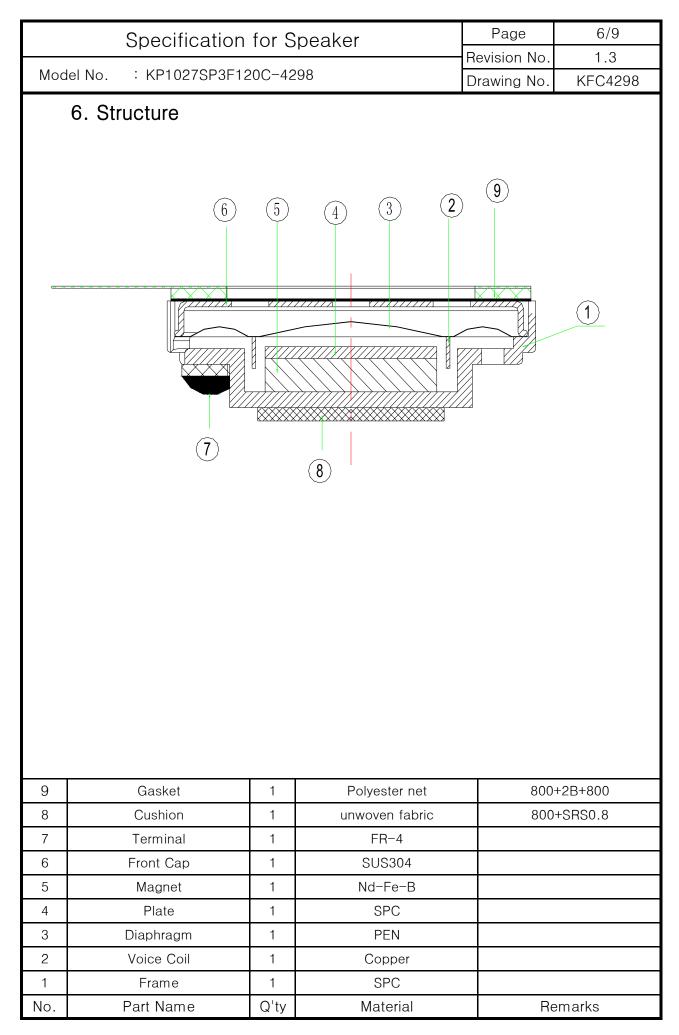
No	ltems	Specification	
1	Impedance	8 Ω ± 15% (1Vrms at 1.5KHz)	
2	Sound Pressure Level	86 dB ± 3dB (0.1W/0.1M at 1.0KHz)	
3	Resonance Frequency	1.1K Hz ± 20%	
4	Frequency Range	Fo ~20KHz	
5	Input Power	Rated 0.3 W / Max. 0.5 W	
6	Distortion	<10% Max. at 2kHz/2Vrms	
7	Buss and Rattle	Should not be audible buzzes,rattles when the 1.55V 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 ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).					
No	Items	Specificatio	Specification			
1	High Temperature Test	After being placed in a chamber with +85±3 °C for 96 hours and hen being placed in natural condition for 1 hour, speaker shall be neasured.				
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±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 $+70^{\circ}$ for 1 hour, then speaker shall be placed in a chamber at -30° 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. $+70^{\circ}$ -30° 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 0.3W(1.55Vrms.) for 96 hours, then placed in natural conditio 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				

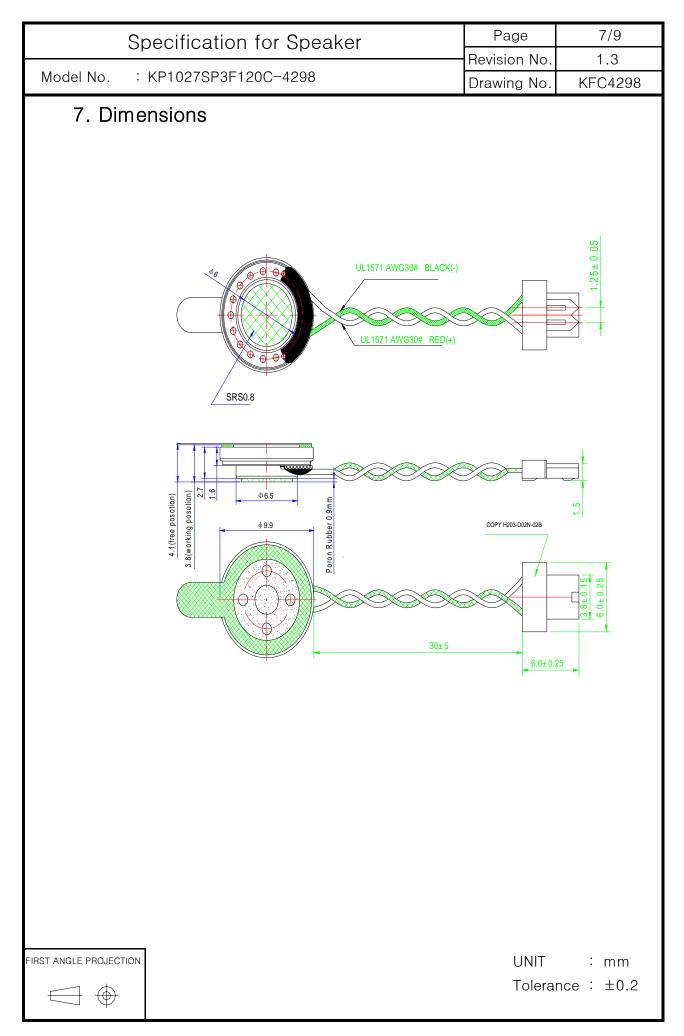


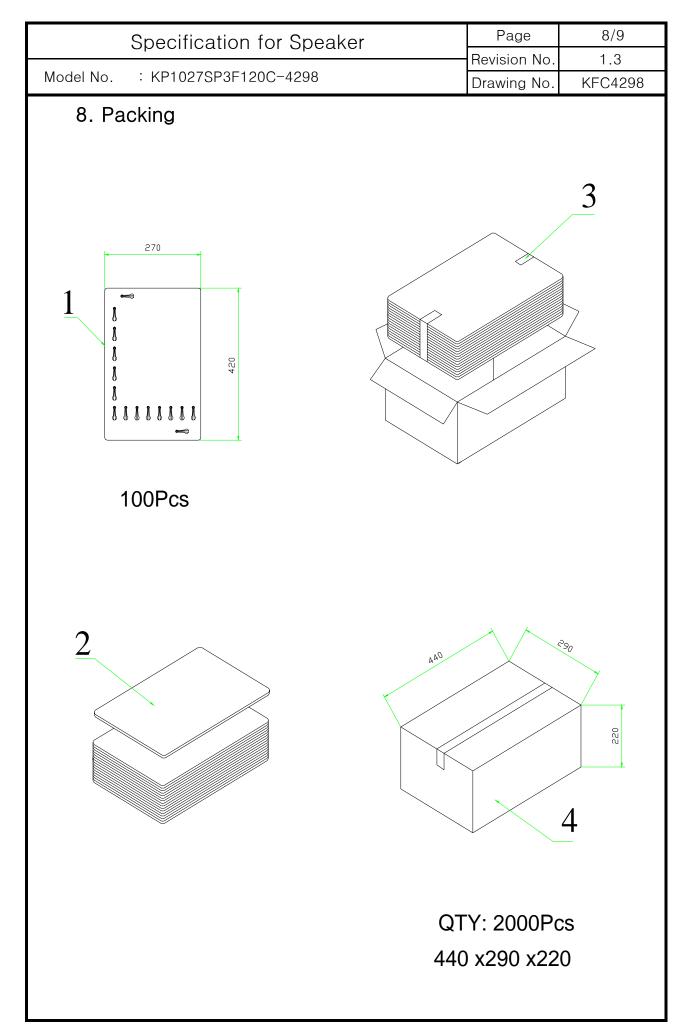
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	9. Revisio	DN				
Rev. No.	DATE	PAGE	DESCRIPTION			BOM
1.0	2008-10-28		Primary			
1.1	2008-10-30		WIRE CHANGE			
1.2	2008-11-25		Plug change			
1.3	2009-3-24		Plug change			