SPECIFICATION

Customer : QUARTZ-1

Applied To :

Product Name : SPEAKER

Model Name : KP1850SP1F500-4997

Drawing No. : KFC4997

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
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宁波凯普电子有限公司 **Solution Solution Sol**

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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 : 18 mm
- 2.2 Height : 5 mm
- 2.3 Weight : 3.5 g
- 2.4 Operating Temperature range:

-20~+60℃ without loss of function

2.5 Store Temperature range:

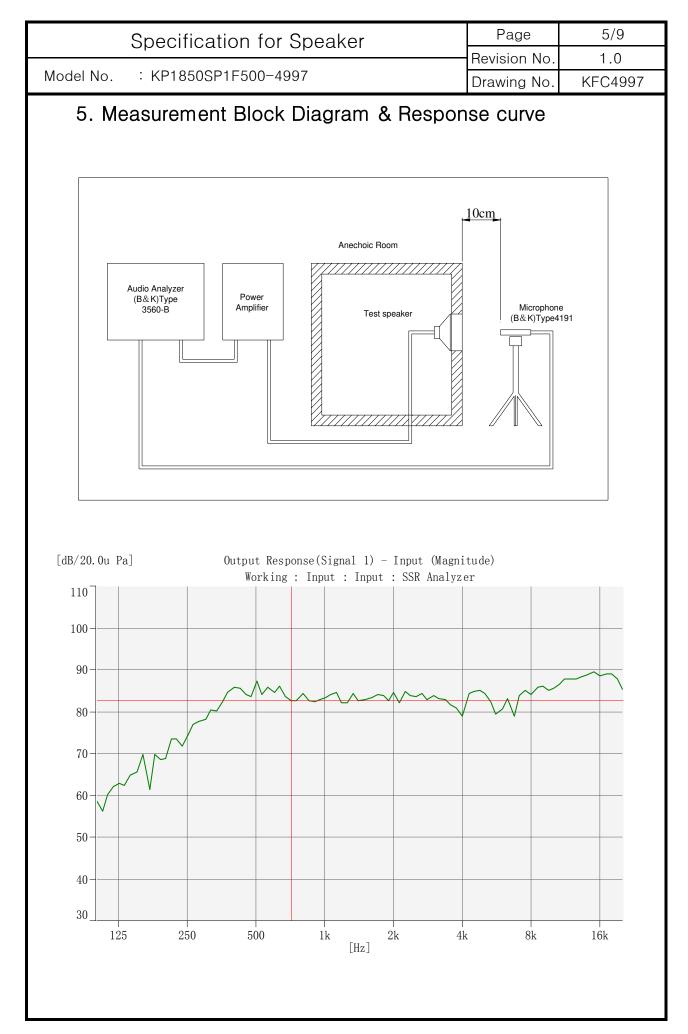
-30~+70℃ without loss of function

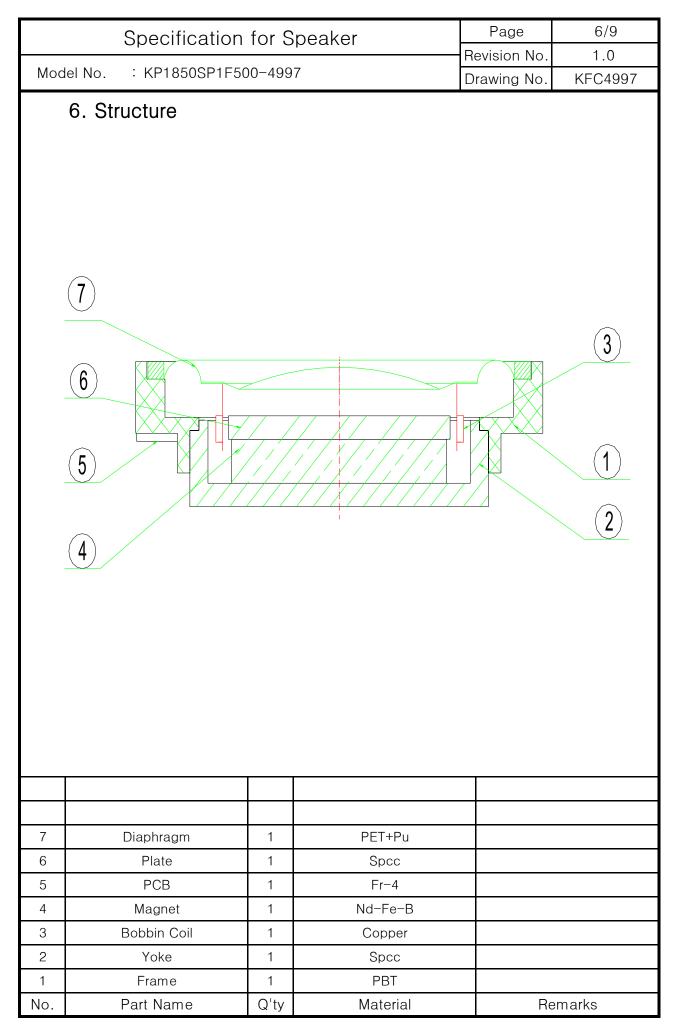
3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	$83 \text{ dB} \pm 3 \text{dB}$ (0.1W/0.1M- at 0.8k,1k,1.2k,1.5kHz AVE)		
3	Resonance Frequency	550 Hz ± 20%		
4	Frequency Range	Fo ~16KHz		
5	Input Power	Rated 1 W / Max. 1.5 W		
6	Distortion	5% Max. at 1kHz/2Vrms		
7	Buss and Rattle	Should not be audible buzzes,rattles when the 2.83V sine wave signal swept at frequency range.		
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		

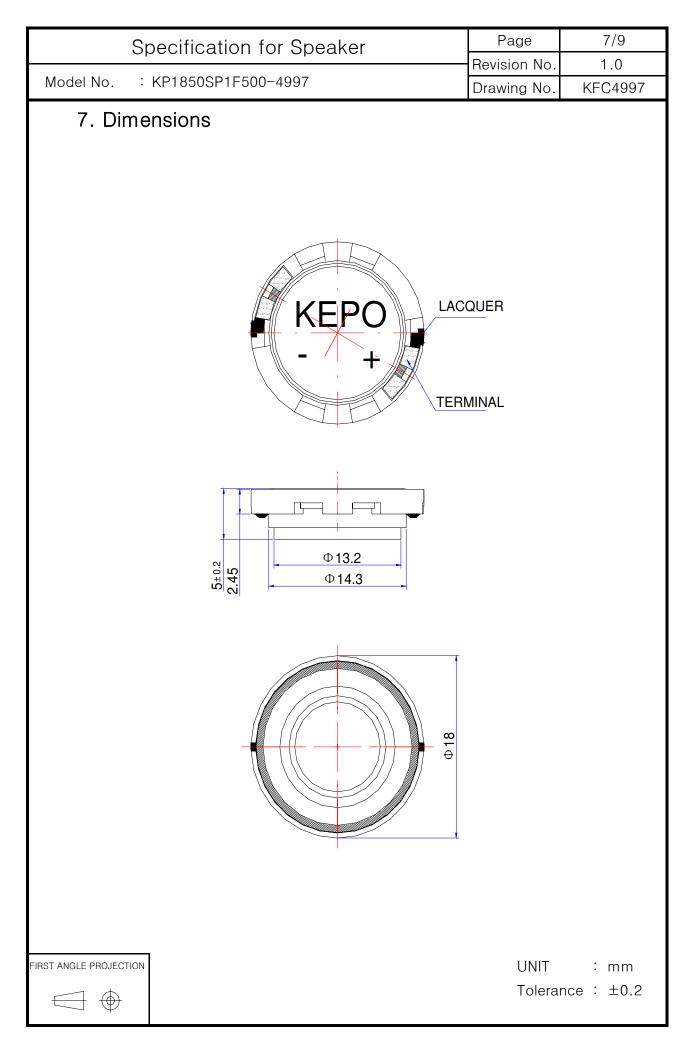
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WOU		Drawing No. KrC48			
	appearance not ex	est n), the speaker S.P.L . difference shall be kist any change to be harmful to normal op damages and especially distortion).		nd the	
No	o Items Specification				
1	High Temperature Test	After being placed in a chamber with $+70\pm3$ °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 -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 +60 °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 +60 °C $2H$ $2H$ $2H$ $2H$ $2H$ $2H$ $2H$ $2H$			
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 1W(2.83Vrms.) 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 Ω			

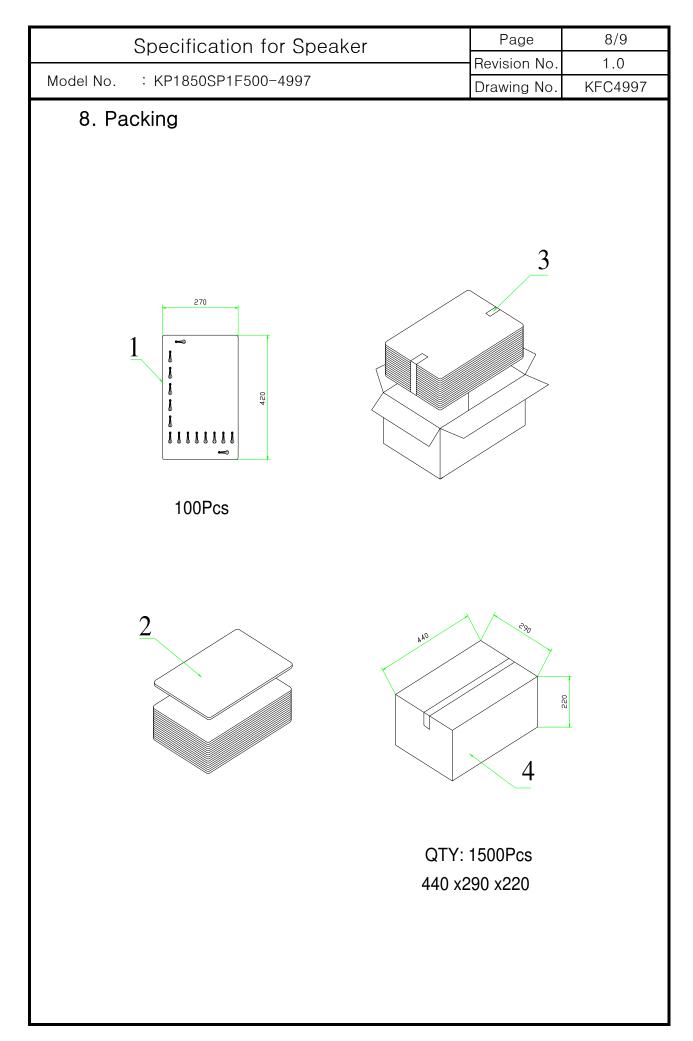




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	9. Revisio	חכ				
Rev. No.	DATE	PAGE	DESCRIPTION			BOM
1.0	2009-6-5		Primary			