# SPECIFICATION 空 控 Customer : QUARTZ-1 Applied To : Product Name : Speaker

Model Name : KP2030SP2F800-5300

Drawing No. : KFC5300

Signature of Approval

#### Signature of KEPO

	Approved by	Checked by	Issued by	Date		
	for	, m	刘敬			
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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

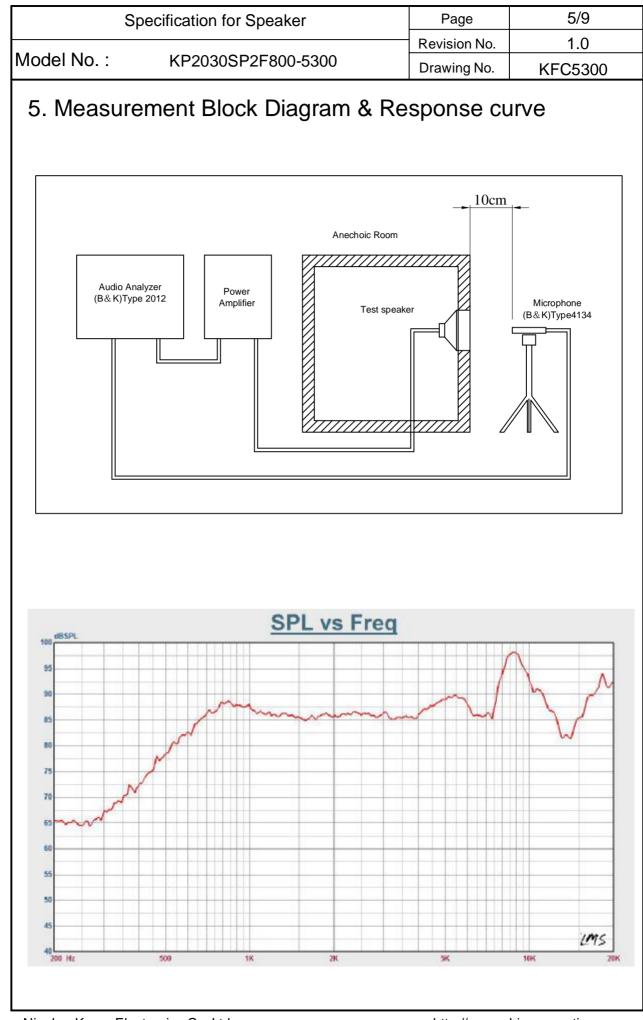
- 2.1 Out-Diameter : Φ20 mm
- 2.2 Height : 4.0mm
- 2.3 Weight : 2.2 gr.
- 2.4 Operating Temperature range:
  - -20~+70  $^{\circ}$ C without loss of function
- 2.5 Store Temperature range:  $-40 \sim +85 \,^{\circ}\mathbb{C}$  without loss of function

## 3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35  $\,^\circ\!\mathrm{C}$  ,  $\,$  25% ~ 85% RH, 860~1060 mbar

$\square$	Items	Specification		
1	Impedance	8 Ω ± 15%(at 1Vrms,1.5kHz)		
2	Sound Pressure Level	90dB ± 3dB( 1kHz/0.1W/0.1M )		
3	Resonance Frequency	800Hz ± 20%		
4	Frequency Range	F₀ ~20kHz		
5	Input Power	Rated 0.8W / Max. 1.2W		
6	Distortion	<10% Max. at 2kHz/2Vrms		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 0.8W sine wave signal swept at frequency range.		
8	8 Polarity When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.			

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Viodel	No. : KP20	)30SP2F800-5300	Drawing No.	KFC5300
а	ppearance not exist an	<b>ESt</b> ), the speaker S.P.L . difference s by change to be harmful to norma nd especially distortion).		3dB, and the
	Item	S	pecificatio	n
1	High Temperature Test	After being placed in a chan and then being placed in natu 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 char °C for 96 hours and then being hour, speaker shall be measur	placed in natura	
4	Thermal Shock Test	After being placed in a char speaker shall be placed in a char is the below diagram). After 6 above cycles, speal placed in natural condition for 1 +80 °C	amber at -40 °C f ker shall be meas hour. <u>20 Sec.</u>	or 1 hour(1 cycle
5	Vibration Test	After being applied vibration to55Hz band of vibration freque directions for 1 hour, then place speaker shall be measured.	ency to each of 3	perpendicular
6	Drop Test	The speaker when mounted 85g~100g, shall with stand 15 t of 1.5 meter to a concrete floor board.and be nothing mechanic	imes random dro faced with 5mm	ps from a height
7	Load test	After being applied loading white noise with input power 0.8W for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.		
8	Insulation test	When they are measured wit resistance between v.c. termina $M \Omega$		

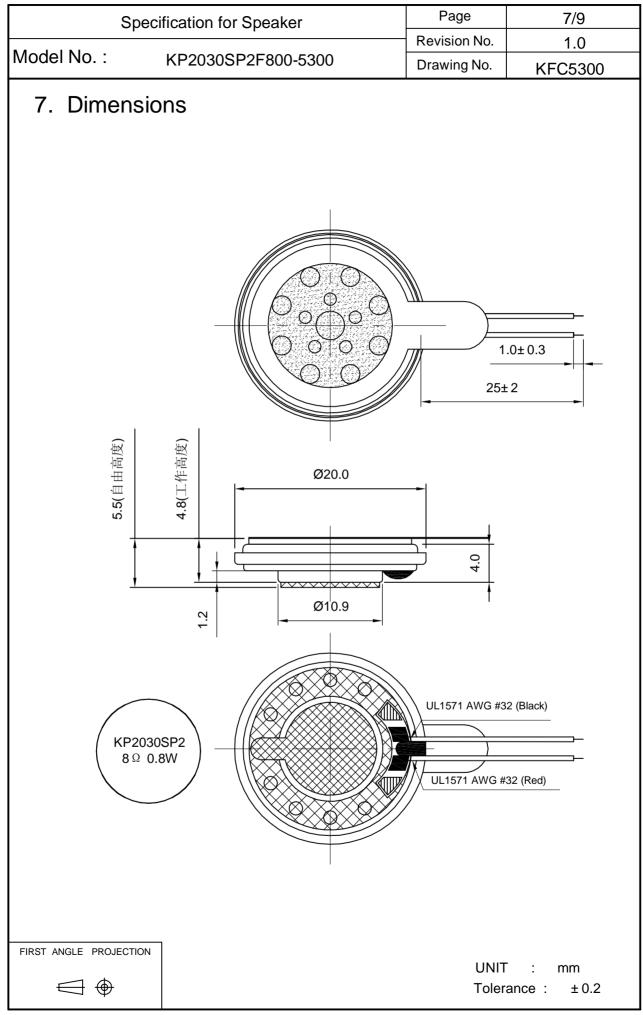


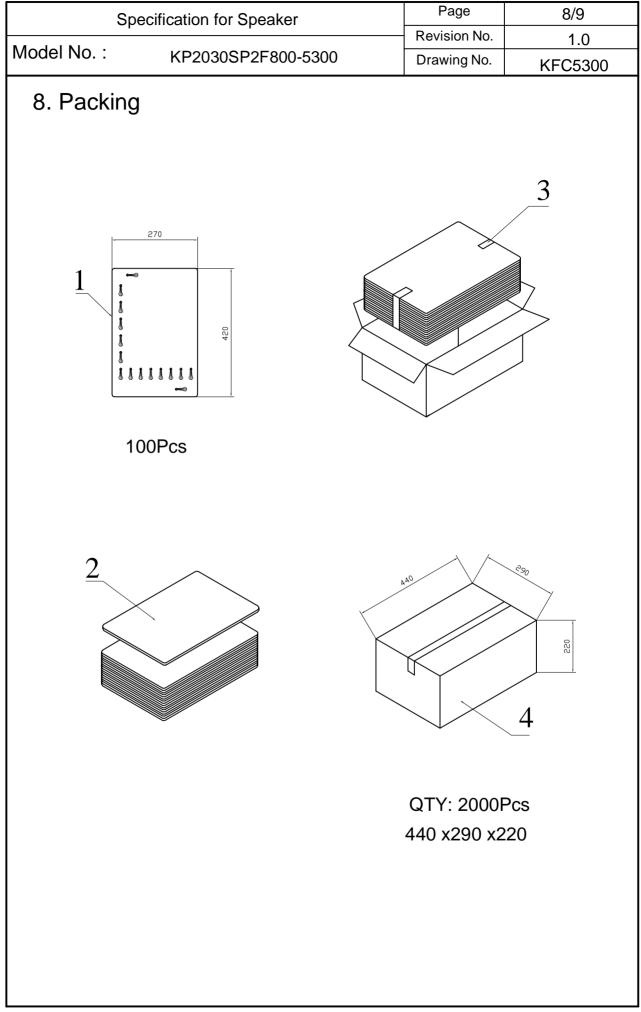
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6. Structure							
9	Screen	1	net120#				
8	Gasket	1	unwoven fabric	800+2	B+800+PSR0.8+800		
7	Termina		Epoxy PCB				
6	Frame	1	SPC				
5	Magnet		Nd-Fe-B				
4	Plate	1	SPC				
3	Diaphrag		PEN				
2			Connor				
	Voice Co		Copper				
1 No.	Voice Co Cap Part Nar	1	SPC Material		Remarks		

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9.	9. Revision							
Rev. No.	DATE	PAGE	DESCRIP	TION	BOM			
1.0	2009.08.19		Primar	у				

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