SPECIFICATION

Customer

Applied To :

Product Name : SPEAKER

Model Name : KP1027SP3F120

Drawing No. : KF3.001.349

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	lssued by	Date

Ningbo Kepo Electronics Co.,Ltd.

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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
- 2.2 Height : 2.7 mm
- 2.3 Weight : 0.6 g
- 2.4 Operating Temperature range:

- 30~ +70 $^\circ C$ without loss of function

- 2.5 Store Temperature range:
 - 40~ +85 $^\circ\!\mathrm{C}$ without loss of function

3. Electrical and Acoustic Characteristics.

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

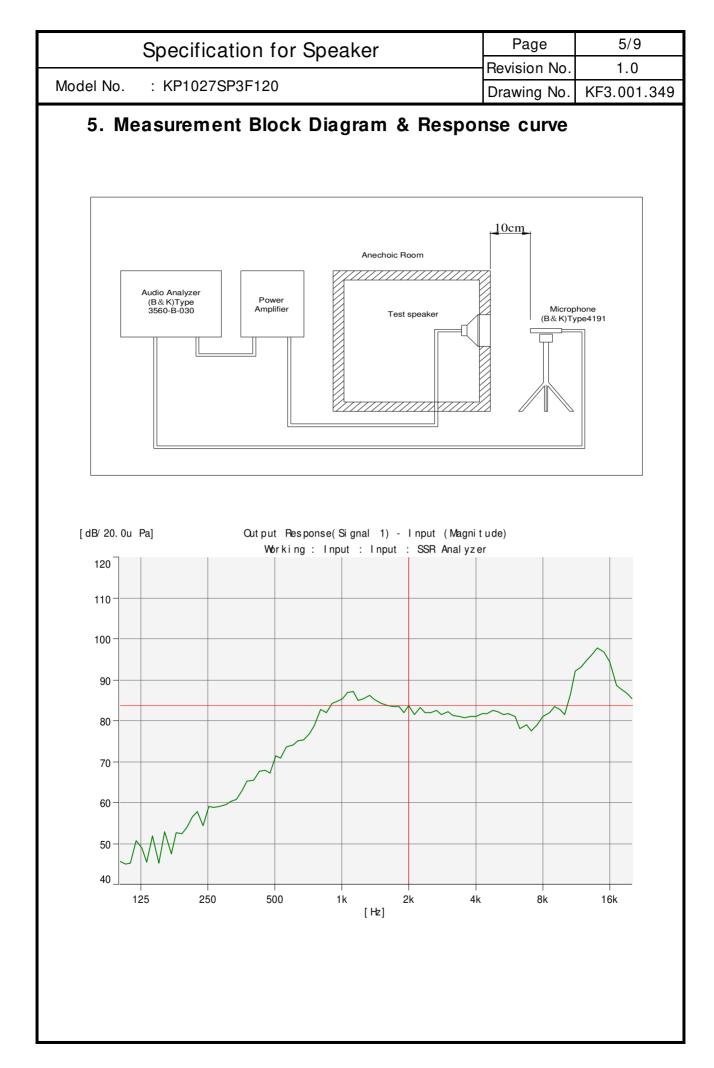
No	ltems	Specification		
1	Impedance	8 Ω \pm 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	84 dB ± 3dB (0.1W/0.1M at 2kHz)		
3	Resonance Frequency	1.1K Hz ± 20%		
4	Frequency Range	Fo ~ 20KHz		
5	Input Power	Rated 0.3 W / Max. 0.5 W		
6	Distortion	<10% Max. at 2kHz/2Vrms		
7	Buss and Rattle	Should not 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

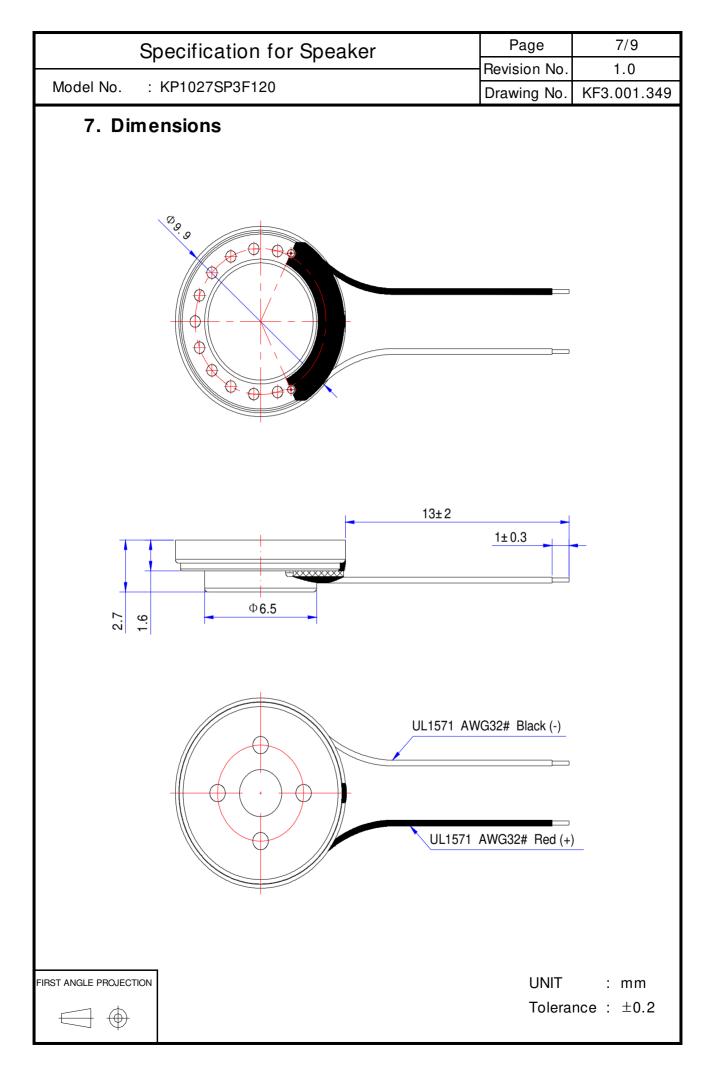
After test(1~7item), the speaker S.P.L. difference shall be within \pm 3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

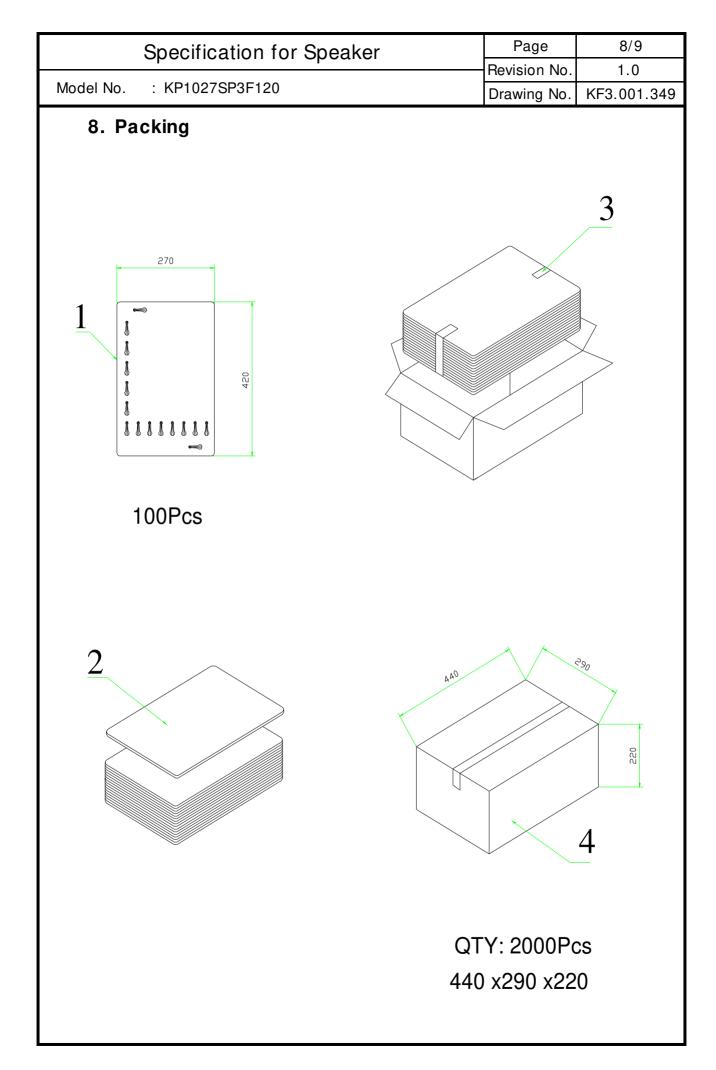
No	ltems	Specification		
1	High Temperature Test	After being placed in a chamber with +85 \pm 3 $^\circ$ C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.		
2	Low Temperature Test	After being placed in a chamber with - 40 ± 3 °C for 96 hours and then being 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 \pm 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 $+70^{\circ}$ C for 1 hour, then speaker shall be placed in a chamber at -30° 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. $+70^{\circ}$ C -30° 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 0.3W(1.55Vrms.) 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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6. Structure							
7	Terminal	1	FR- 4				
6	Front Cap	1	SUS304				
5 4	Magnet	1	Nd- Fe- B				
	Plate	1	SPC				
3	Diaphragm	1	PEN				
2	Voice Coil	1	Copper				
1 No	Frame Part Namo	1 O'ty	SPC Matorial		omarka		
No.	Part Name	Q'ty	Material	- Re	emarks		

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		Drawing No.	KF3.00	1.349		
	9. Revisio	on				
Rev. No.	DATE	PAGE	DESCRIPTION			BOM
1.0	2008- 9- 22		Primary			

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