Spe	cification for Speaker	Page	2/10	
Model No. : KP1838M1F1-5022		Revision No.	1.0	
		Drawing No.	KFC5022	
CONTE	NTS			
4. Reliabili	al and Acoustic Characteristics. ty Test ement Block Diagram & Respor e ons	ise curve		

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Model No. :	KP1838M1F1-5022	Drawing No.	KFC5022

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 : Φ 18 mm
- 2.2 Height : 4.0mm
- 2.3 Weight : 2.00gr.
- 2.4 Operating Temperature range:
 - -20~+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.

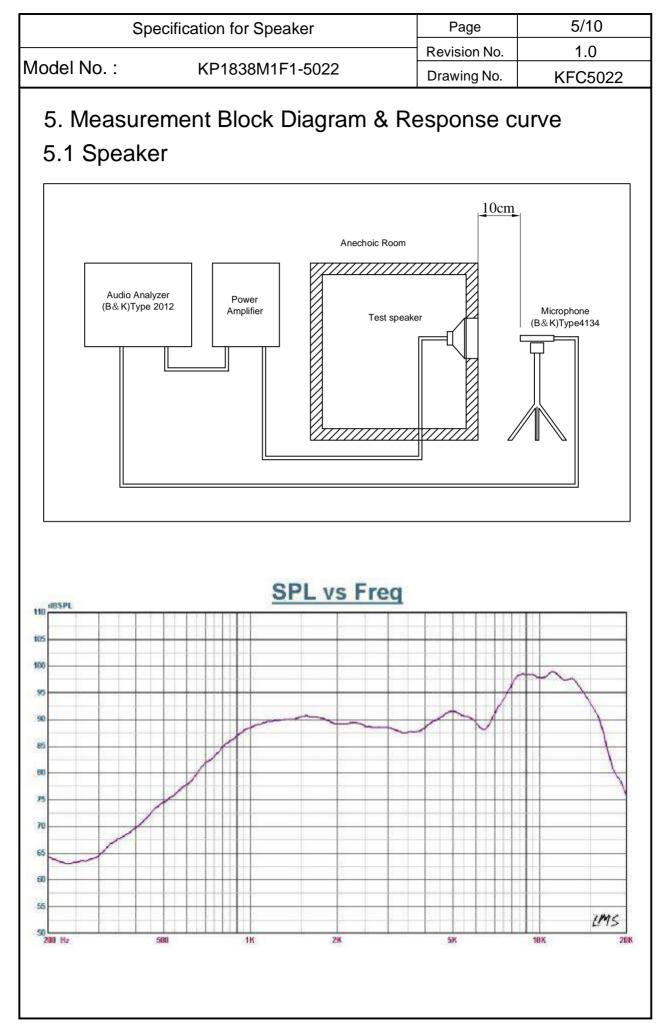
Test condition : 15 ~ 35 $\,^\circ\!\mathrm{C}$, $\,$ 25% ~ 85% RH, 860~1060 mbar

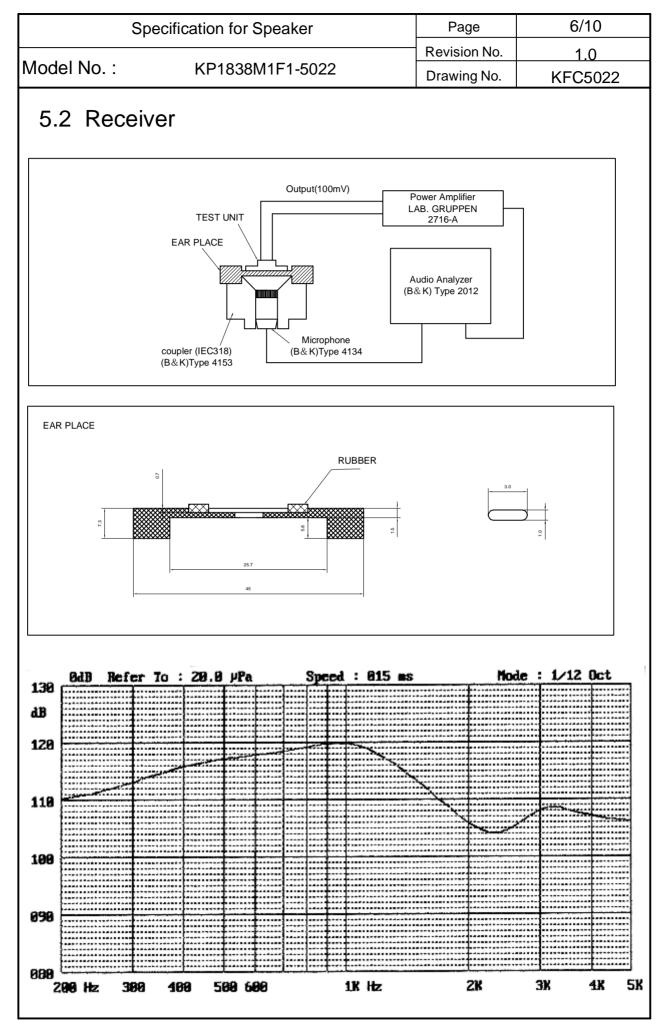
\square	Items	Specification	
1	Impedance	8 Ω ± 15%(at 1Vrms,1.5kHz)	
2	Sound Pressure Level	88dB ± 3dB(1kHz/0.1W/0.1M)	
3	Resonance Frequency	1000Hz ± 20%	
4	Frequency Range	F₀ ~ 20kHz	
5	Input Power	Rated 0.5W / Max. 0.8W	
6	Distortion	<10% Max. at 2kHz/0.1W	
7	7Buzz and RattleShould not be audible buzzes, rattles when the 0 wave signal swept at frequency range.		

3.2 Receiver

\sum	Items	Specification		
1	Impedance	8 Ω ± 15%(at 1Vrms,1.5kHz)		
2	Sound Pressure Level	120dB ± 3dB(1kHz/100mV)		
3	Frequency Range	300~3400Hz		
4	Input Power	Rated 10mW / Max. 30mW		
5	Distortion	<3% Max. at 1kHz/1Vrms		
6	Buzz and Rattle	Should not be audible buzzes,rattles when the 0.28V sine wave signal swept at frequency range.		

Specification for Speaker Model No. : KP1838M1F1-5022			Revision No.	1.0	
NUGEI	NO KP	1838M1F1-5022	Drawing No.	KFC5022	
a	ppearance not exist ar	est), the speaker S.P.L . difference s ny change to be harmful to norma and especially distortion).		3dB, and the	
	Item	S	pecificatio	n	
1	High Temperature Test	After being placed in a chamber with +85±3 ℃ 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 ℃ 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 +80 °C for 1 hour, then speaker shall be placed in a chamber at -40 °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. $\frac{20 \text{ Sec.}}{-40 \text{ °C}}$			
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with to55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 ho 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 0.5W for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.			
8	Insulation test	When they are measured with resistance between v.c. terminal M Ω			





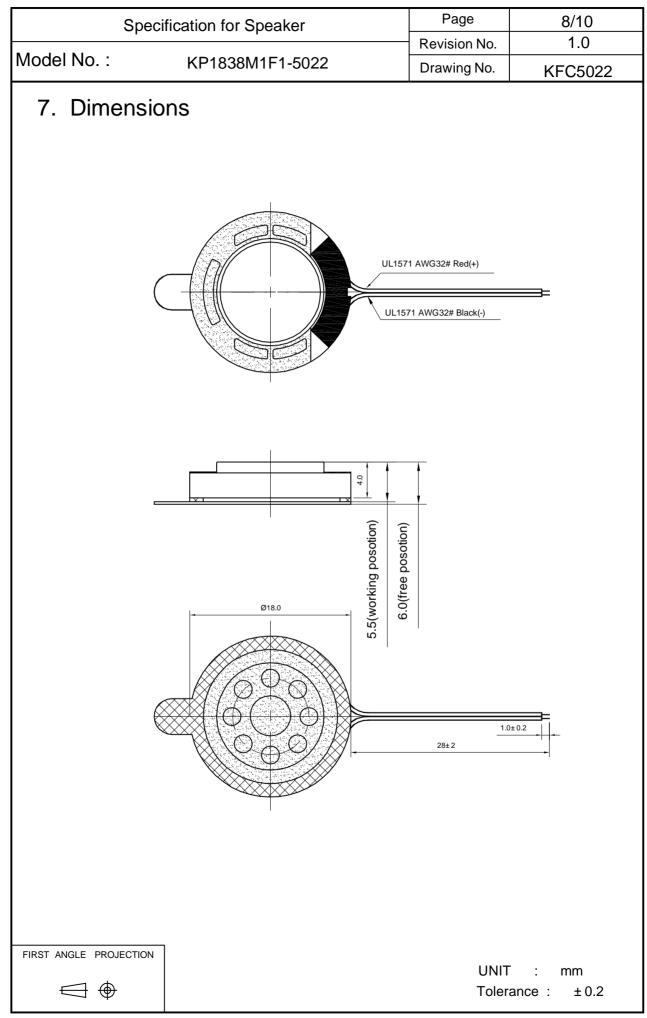
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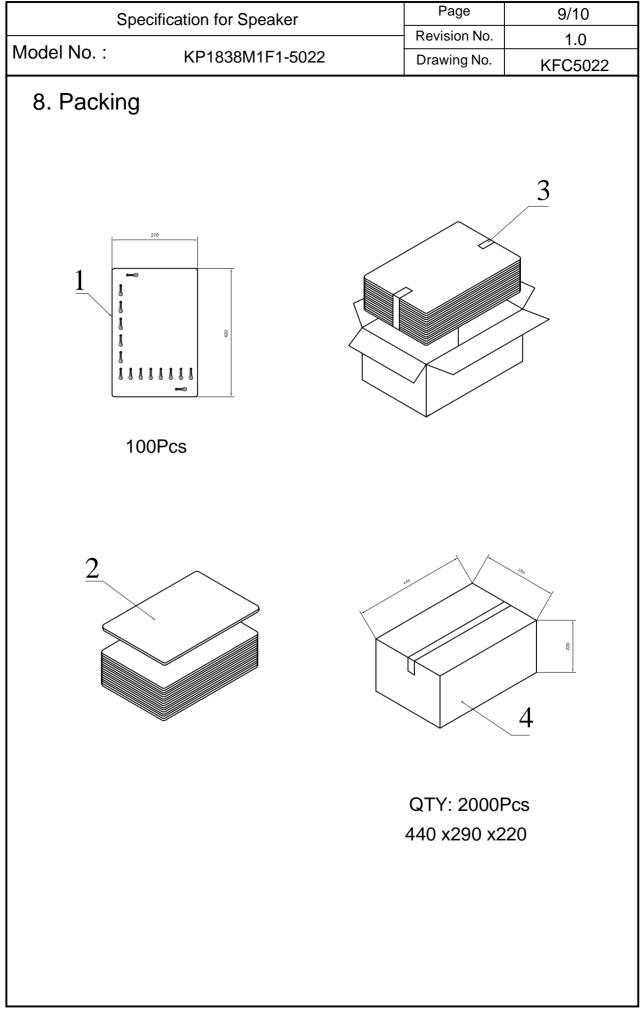
	Specificatio	n for Spea	aker	Page	7/10	
				Revision No.	1.0	
wode	INO KP	1838M1F	1-5022	Drawing No.	KFC5022	
6. Structure						
10	Screen	1	3B			
9	U YOKE	1	SPC			
8	Gasket	1	unwoven fabric	800+2	B+800+PSR1.5+800	
7	Terminal	1	Epoxy PCB			
6	Frame	1	PBT			
5	Magnet	1	Nd-Fe-B			
4	Plate	1	SPC			
3	Diaphragm	1	PEN			
2	Coil	1	Copper			
1	Сар	1	SUS304			
No.	Part Name	Q'TY	Material		Remarks	

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9.	9. Revision						
Rev. No.	DATE	PAGE	DESCRIP	TION	BOM		
1.0	2009.06.12		Primar	У			