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	·	Revision No.	1.0
Model No.	KP50170SP1-6494	Drawing No.	KFC6494
CONTE	NTS		

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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 : 50 mm
- 2.2 Height : 24.5 mm
- 2.3 Weight : 55 g
- 2.4 Operating Temperature range:

-20 ~+60  $\,^\circ\!\!C$  without loss of function

2.5 Store Temperature range:

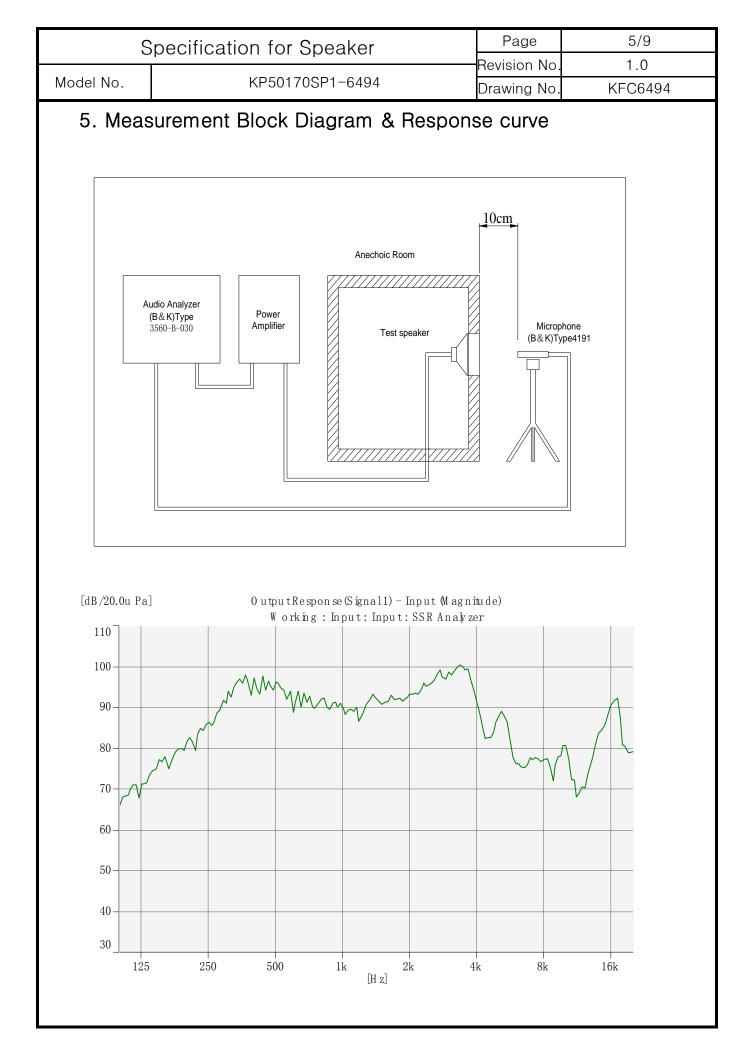
-20 ~+60  $\,\,{}^\circ\!\mathrm{C}$  without loss of function

## 3. Electrical and Acoustic Characteristics.

No	ltems	Specification			
1	Impedance	8 Ω ± 15% (1Vrms at 1.0KHz 1.0V)			
2		91 dB ± 2dB (at 0.1w/ 0.1m Average at 0.8,1.0,1.2,1.5KHz)			
2	Sound Pressure Level	81 dB $\pm$ 2dB (at 1W/ 1M Average at 0.8,1.0,1.2,1.5KHz)			
3	Resonance Frequency	450 Hz ± 20%			
4	Frequency Range	Fo ~4KHz			
5	Input Power	Rated 0.3 W / Max. 0.5 W			
6	Distortion	<10% Max. at 2kHz/2Vrms			
7	Buzz 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.			

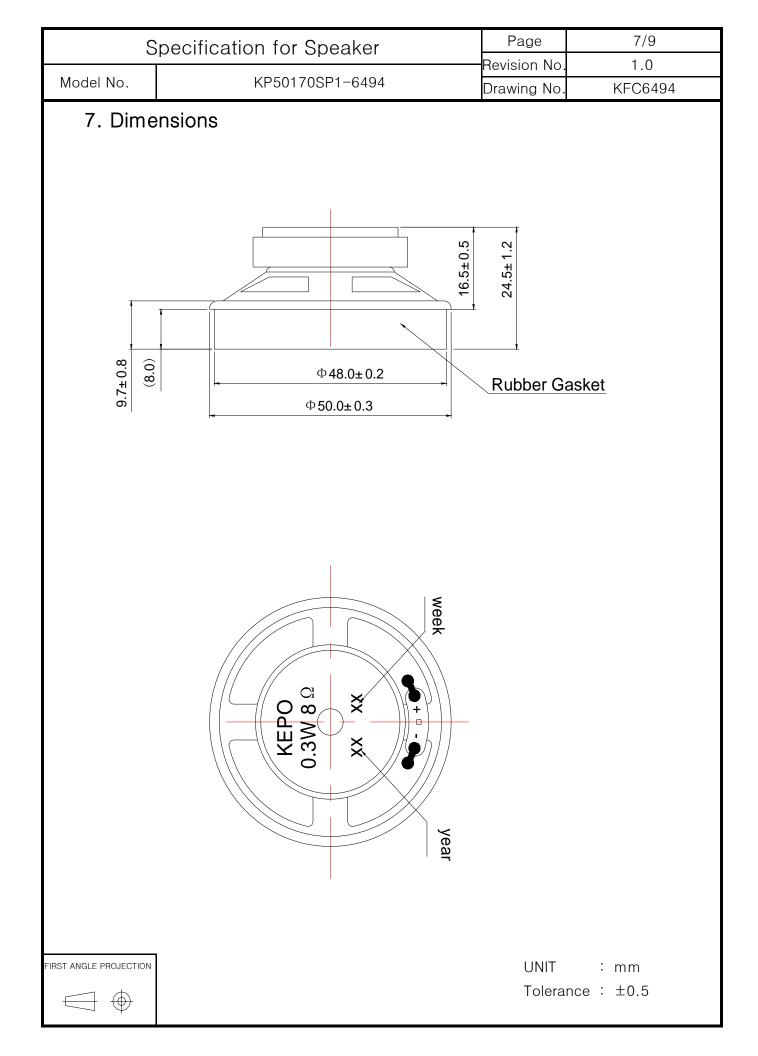
Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

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<b>4. Reliability Test</b> 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	No Items Specification					
1	High Temperature Test	After being placed in a chamber with +60 $\pm 3$ °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 $-20\pm3$ °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 with85±5%R.H. at +40±5 ℃ 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 be placed in a chamber at -20°C for 1 hour( After 4 above cycles, speaker shall be mea natural condition for 10 Sec +60 °C -20°C 1 hour 1	1 cycle is the belo	ow diagram).		
5	Vibration Test	After being applied vibration of amplitu band of vibration frequency to each of 3 per hour, then placed in natural condition for 1 h measured.	pendicular directio	ons for 1		
6	Drop Test	A speaker is dropped from 1m in length o inclination and a magnetic circuit of speake to the restraint metal. After the test, magnetic circuit should not and speakr should be met the item 11,12.	r is hitte	ker to		
7	Load test	After being applied loading white noise with for 96 hours, then placed in natural condition measured.				
8	Insulation test	When they are measured with DC 100V the v.c. terminal and frame must be more than		ce between		



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woder no.	Drawing No.	KFC6494			
6. Str	ructure				
8	T yoke	1	SPCC		
7	Magnet	1	Y30	_	
6	Frame	1	SPCC		
5	Spider	1	Cotton Yarn	_	
4	Voice Coil	1	Kraft Paper		
3	Dust Cap	1	Paper		
2	Cone	1	Paper		
1	Gasket	1	Rubber		
No.	Part Name	Q'ty	Material	F	lemarks



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## 8. Packing





每条5PCS



每条5PCS





每箱120PCS

外箱尺寸:355X275X140 QTY:120PCS

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	9. Revision						
Rev. No.	DATE	PAGE	DESCRIPTION		BOM		
1.0	2012-9-5		Primary		1		