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Model No.	: KP40X20SP1-6739	Drawing No.	KFC6739

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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 : 40x20 mm
- 2.2 Height : 6 mm
- 2.3 Weight : 4.6 g
- 2.4 Operating Temperature range:

-20~+60℃ without loss of function

2.5 Store Temperature range:

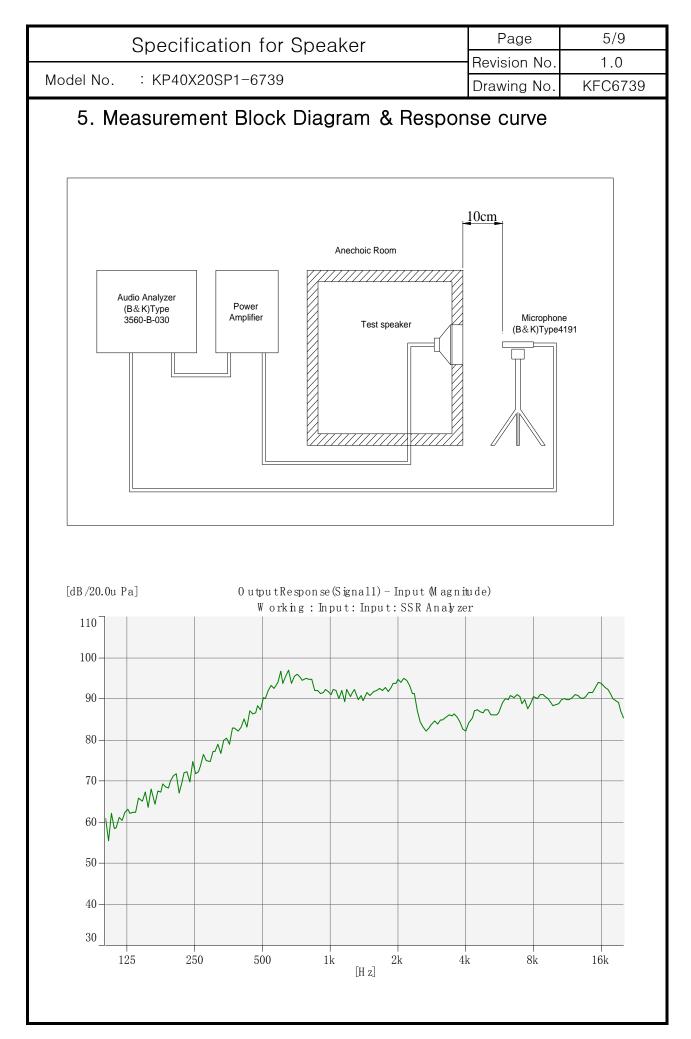
 $-30 \sim +70 \,^{\circ}{\rm C}$  without loss of function

## 3. Electrical and Acoustic Characteristics.

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

No	ltems	Specification		
1	Impedance	$8 \Omega \pm 15\%$ (1Vrms at 1KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M at 0.8,1,1.2,1.5kHz Average)		
3	Resonance Frequency	600 Hz ± 20%		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 1 W / Max. 2 W		
6	Distortion	<10% Max. at 2kHz/2Vrms		
7	Buzz 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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<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	ltems	Specificatio	Specification			
1	High Temperature Test	After being placed in a chamber with +70±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 -30±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 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 placed in a chamber at -20 °C for 1 hour(1 After 6 above cycles, speaker shall be mean natural condition for 1 hour. +60 °C -20 °C	cycle is the below	v diagram).		
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 $M\Omega$				



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6. Structure						
	<u> </u>		E 505			
7	Terminal	1	Epoxy PCB			
6	Frame	1	PBT			
5	Magnet	1	Nd-Fe-B			
4	Plate	1	SPC			
3	Diaphragm	1	SILK CLOTH			
2	Voice Coil	1	Copper			
1	Yoke	1	SPC			
No.	Part Name	Q'ty	Material	Re	emarks	

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