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	Revision No.	1.0
Model No. : KP2415SP2-5856	Drawing No.	KFC5856

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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 : 24x15 mm
 2.2 Height : 3.3 mm
 2.3 Weight : 1.5 g

2.4 Operating Temperature range:

-20~+70°C without loss of function

2.5 Store Temperature range:

-40~+85℃ without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification			
1	Impedance	$8~\Omega~\pm 15\%~$ (1Vrms at 1KHz)			
2	Sound Pressure Level	90 dB ± 3dB (0.1W/0.1M at 2kHz)			
3	Resonance Frequency	900 Hz ± 20%			
4	Frequency Range	Fo ~20KHz			
5	Input Power	Rated 0.5 W / Max. 0.8 W			
6	Distortion	<10% Max. at 2kHz/2Vrms			
7	Buss and Rattle	Should not be audible buzzes, rattles when the 2V 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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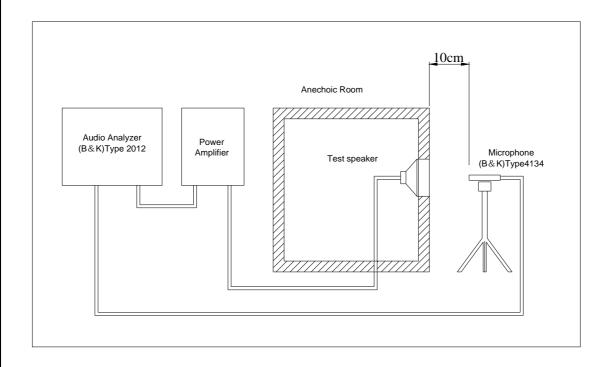
4. Reliability Test

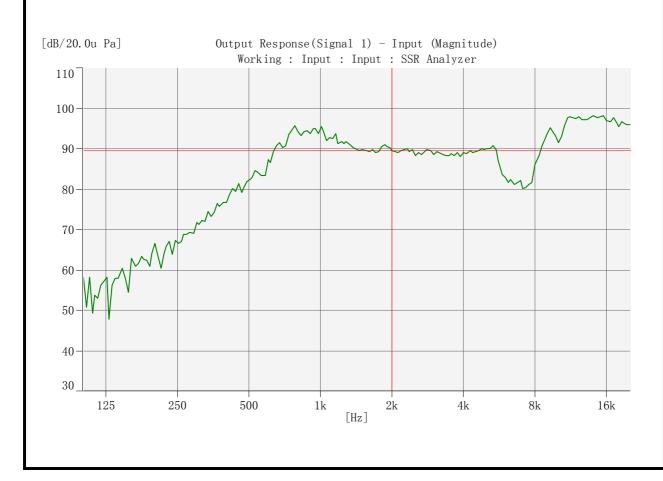
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification		
1	High Temperature Test	After being placed in a chamber with +85±3 °C for 96 hours and ther 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 ther 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 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°C for 1 hour, then speaker shall b placed in a chamber at -20°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°C -20°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 0.5W(2Vrms.) 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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5. Measurement Block Diagram & Response curve



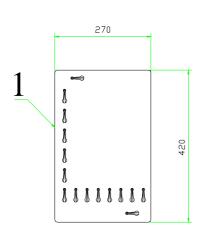


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9	6. Structure 7	5	9 4 SPC	6	
8	Gasket	1	unwoven fabric		
7	Terminal	1	Ероху РСВ		
6	Frame	1	PBT		
5	Magnet	1	Nd-Fe-B		
4	Plate	1	SPC		
3	Diaphragm	1	PEN		
2	Voice Coil	1	Copper		
1	Cap	1	SUS304		
No.	Part Name	Q'ty	Material	Re	marks

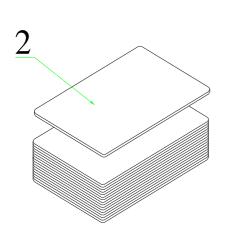
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Model No. : KP2415SP2-5856	Drawing No.	KFC5856
7. Dimensions	20±2 1±0	0.5
3.6	UL1571 AWG#32 b	lack(-)
ST ANGLE PROJECTION	UNIT Tolerar	: mm nce : ±0.2

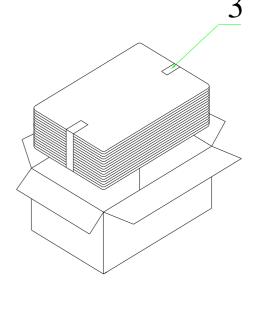
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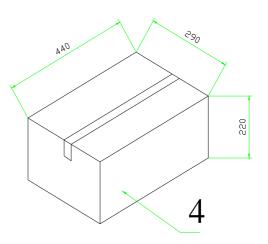
8. Packing



100Pcs







QTY: 2000Pcs 440 x290 x220

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9. Revision						
Rev.	DATE	PAGE	DESCRIPTION			ВОМ
No.	DATE	TAGE	DESCRII HON			БОМ
1.0	2010.05.26		Primary			