SPECIFICATION 💆

Customer

Applied To

Product Name: Speaker

Model Name: KP5075SP1-7524

Drawing No. : KFC7524

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
100mm	主义	忻客荣	

宁波凯普电子有限公司



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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 : 8.5 mm
2.3 Weight : 17 g
2.4 Operating Temperature range:

-20 ~+50 °C without loss of function

2.5 Store Temperature range:

-30 ~+70 °C without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M AVG at 0.6,0.8,1,1.2KHz)		
3	Resonance Frequency	350 Hz ± 20%		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 1 W / Max. 2.0 W		
6	Distortion	10% Max. at 1kHz 1W		
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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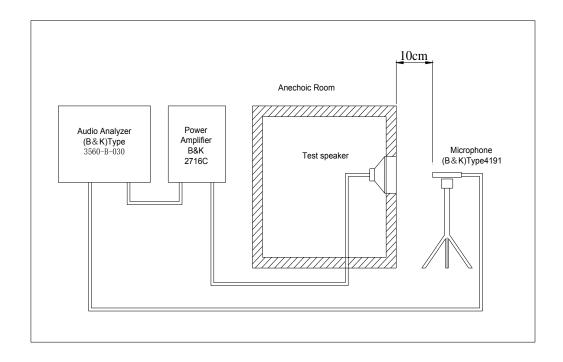
4. Reliability Test

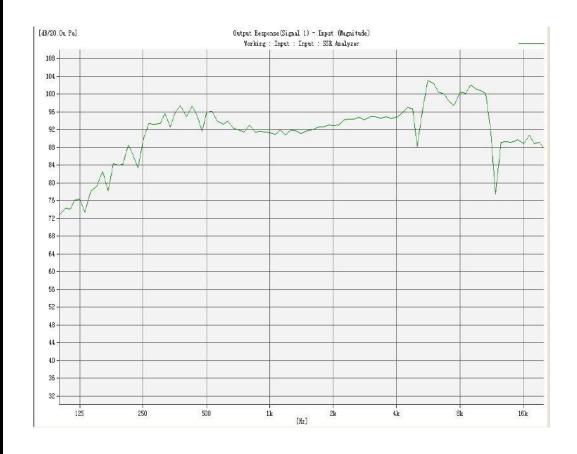
After test(1~7item), the speaker S.P.L . difference shall be within ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with +70 ±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 -30 ±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±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 +50 °C for 1 hour, then speaker shall be placed in a chamber at -20°C for 1 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec +50 °C -20 °C 1 hour 1 hour	
5	Slide Test	A speaker is dropped from 1m in length on 75° inclination and a magnetic circuit of speaker is hitted to the restraint metal. After the test, magnetic circuit should not drop	
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 $\mbox{M}\Omega$	

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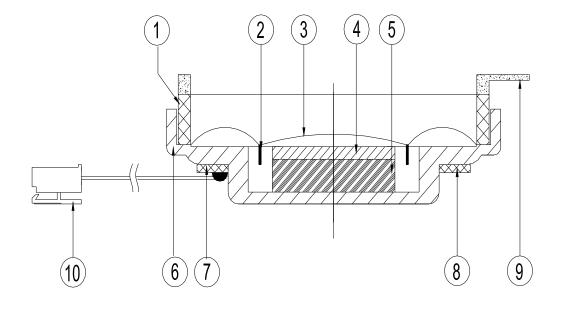
5. Measurement Block Diagram & Response curve





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6. Structure

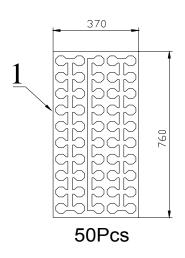


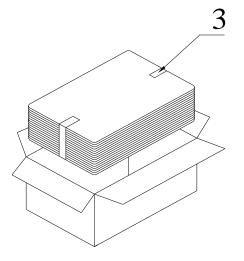
10	0 Connector		Housing: SMH200-03P Terminal: YST200 UL1007 AWG24#	
9	Gsaket	1	PSR	
8	Screen	1	Unwoven fabric	
7	Terminal	1	Ероху	
6	Frame	1	SPCC	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PET	
2	Voice Coil	1	Copper+Paper	
1	Gasket	1	Paper	
No.	Part Name	Q'ty	Material	Remarks

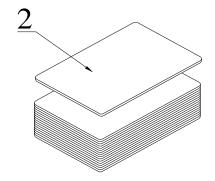
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7. Dimensions 350±10 UL1007 AWG24	# BLACK-	P3
UL1007 AWG24# Hou Teri	sing: SMH200-03l ninal: YST200	P1
WEPO TO THE PROPERTY OF THE PR		
FIRST ANGLE PROJECTION	UNIT Tolera	: mm nce : ±0.2

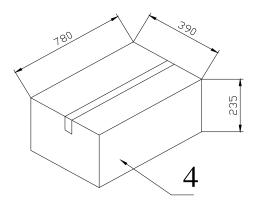
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8. Packing









QTY:750Pcs 780 x390 x220

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IVIOO	lel No. : K	P5U/5S	SP1-7524	Drawing No.	KFC7	524
	9. Revision	on				
Rev. No.	DATE	PAGE	DESCRIPTION			ВОМ
1.0	2014-9-30		Primary			
1.1	2015-1-23		Store Temperature range: -30 ~+60) °C>-30 ~+70	°C	
1.2	2015-10-9		Change Pack			
1.3	2015-11-4		Change Pack			
1.4	2018-10-12	10-12 Equate Connector → Certified Products Connector				