SPECIFICATION (2)



Customer :

Applied To :

Product Name: Speaker Box

Model Name: KPB4001-7682

Drawing No. : KFC7682

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
Town	主义	忻客荣	

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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 : 40 mm
2.2 Height : 14 mm
2.3 Weight : 23.5 g
2.4 Operating Temperature range:

-30 ~+85 ℃ without loss of function

2.5 Store Temperature range:

-40 ~+90 ℃ without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	$64~\Omega~\pm 15\%~$ (1Vrms at 3KHz)		
2	Sound Pressure Level	94 dB ± 3dB (0.25w / 0.3m Avg. at 1.5k,1.8k,2.0k,2.5kHz)		
3	Resonance Frequency	1500 Hz ± 20%		
4	Frequency Range	Fo ~4.5KHz		
5	Input Power	Rated 0.25 W / Max. 0.5 W(White noise for 30 minute)		
6	Distortion	5% Max. at 2kHz/4Vrms		
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 4V 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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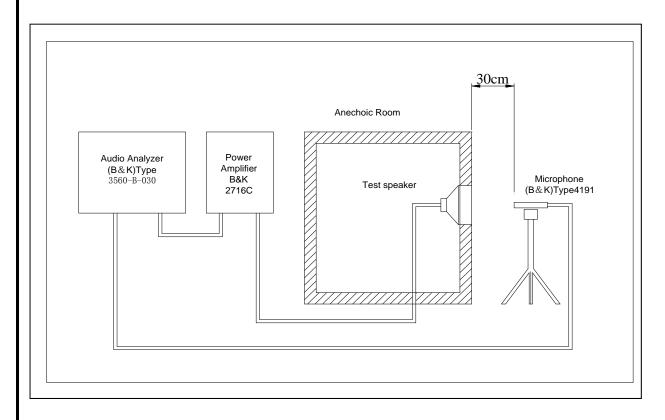
4. Reliability Test

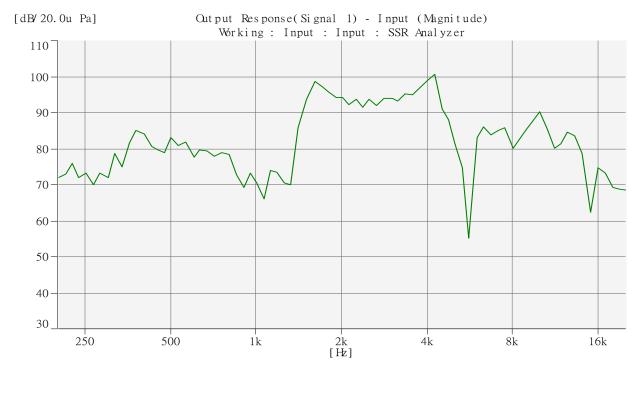
After test(1 \sim 7item), the speaker S.P.L. difference shall be within ± 3 dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion)

	rtion).	
No	Items	Specification
1	High Temperature Test	After being placed in a chamber with +90 $\pm 3~^{\circ}$ 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 -40 $\pm 3~^{\circ}$ 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 95%R.H. at +63±3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	ON/OFF Operation Endurance Test	Applying power 0.25W(20Hz~20kHz, sine wave frequency scan signal, scan speed 8ms), carry out operation patterns for 250 hours on/off operation, every on/off circle taks 4 second, 2s on and 2s off.
5	Thermal Shock Test	After being placed in a chamber at +85 °C for 1 hour, then speaker shall be placed in a chamber at -30 °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
6	Vibration Test	Put the sampels in test equipment, vibrate at speed 4.4G(43.1m/s2), vibration of amplitude 1.5mm, 33 Hz in X Y Z directions for 4 hours. speaker shall be measured.
7	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.
8	Load test	After being applied loading white noise with input power 0.25W(4Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
9	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 $M\Omega$
10	High temperature operation Endurance Test	Apply power 0.5W(20Hz~20kHz, sine wave frequency scan signal, scan speed 8ms), temperature 65±3°C, carry out operation patterns for 48 hours.
11	Low temperature operation Endurance Test	Apply power 0.5W(20Hz~20kHz, sine wave frequency scan signal, scan speed 8ms), temperature -30±3℃, carry out operation patterns for 48 hours.
12	Pull A Terminal Test	Speaker shall continue to operate after test of a 10N F direction force for 30 seconds.

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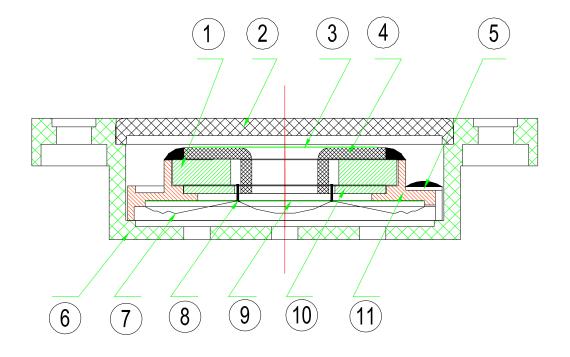
5. Measurement Block Diagram & Response curve





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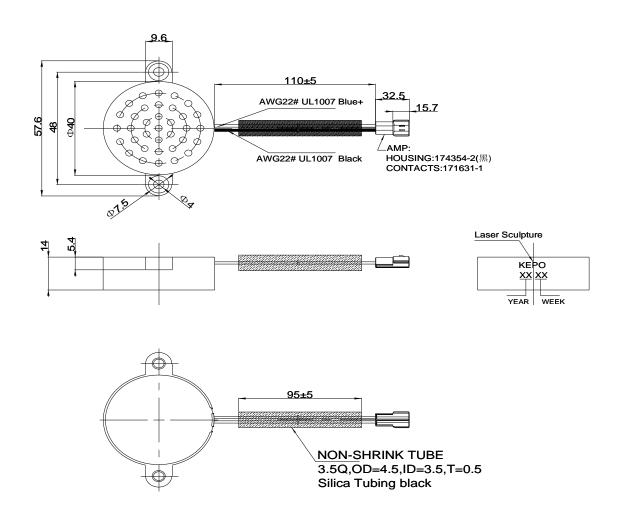
6. Structure



11	Frame		PBT	
10	Plate	1	SPC	
9	Screen2	1	2B	
8	Voice Coil	1	Copper	
7	Diaphragm	1	PEI	
6	BOX-773 frontCover	1 PC		
5	5 Terminal		Epoxy PCB	
4	4 Yoke		SPC	
3	3 Screen1		2B	
2	BOX-774 rearCover 1		PC	
1	1 Magnet 1 Y30			
No.	Part Name	Q'ty	Material	Remarks

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7. Dimensions

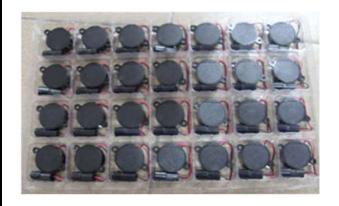


FIRST ANGLE PROJECTION

UNIT : mm Tolerance : ± 0.2

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8. Packing





1盒装28个喇叭





每箱装28x11=308PCS

标贴范本, 此标贴贴于外箱正唛右上方

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9. Revision			302			
Rev. No.	DATE	PAGE	DESCRIPTION			вом
1.0	2015-6-23		Primary			
1.1	2015-9-16		Change wire colo	r		
1.2	2016-1-5		Change Label			
1.3	2016-11-19		Change wire UL1007 AWG24->	JL1007 AWG22		