SPECIFICATION

受　控

Customer: 合肥晟泰克

Applied To:

Product Name: SPEAKER　BOX

Model Name: KPB4201SP1R90-Q7994

Drawing No.: KFC7994

Compliance with ROHS (本品符合 ROHS 指令)

Signature of KEPO

Issued by	Checked by	Approved by	Date
			

宁波凯普电子有限公司

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1.2	2017.05.15		根据客户图档修改及增加侧喽标贴	
1.1	2017.01.09		Add date code	
1.0	2016.07.27		Primary	
Rev.	DATE	PAGE	DESCRIPTION	SIGN

Revision 履历表

1. Scop

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:42mm

2.2 Height: 13mm

2.3 Weight:16.5g

2.4 Operating Temperature range:

-40~+85℃ without loss of function

2.5 Store Temperature range:

-40~+90℃ without loss of function

3. Electrical and Acoustic Characteristics

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

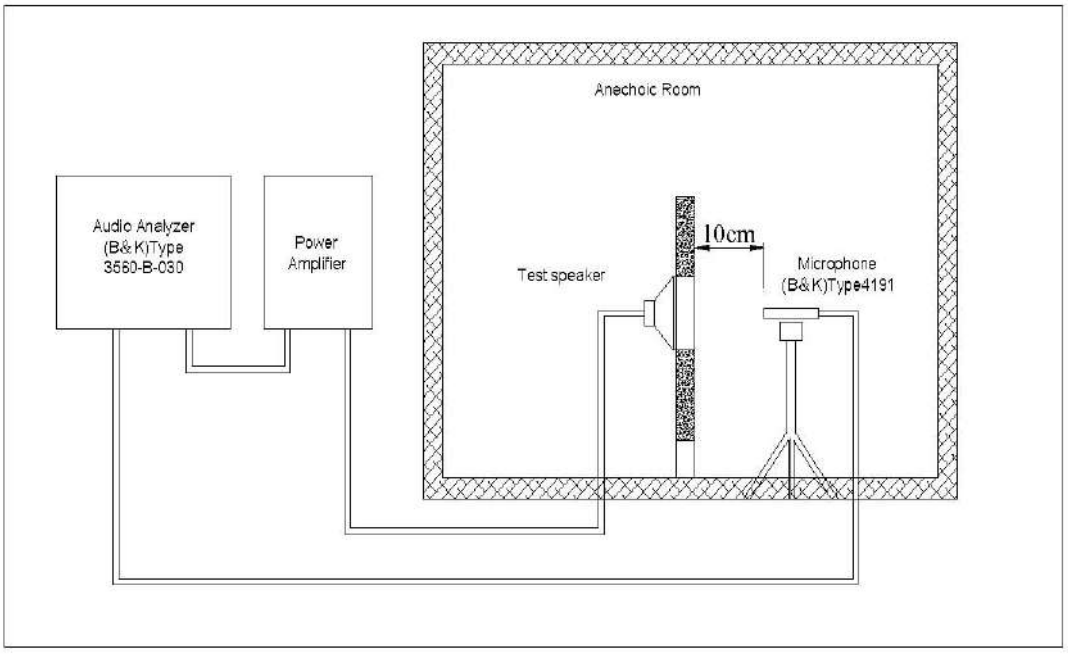
	Item	Specification	
3.1	Impedance	100Ω±15%(1Vrms at 3000Hz)	
3.2	Coil resistance	90Ω±7%	
3.3	Sound Pressure Level	≥60dB at 0.8KHz	0.25W(7.0Vp-p)/0.5m baffle board(IEC) square wave
		≥70dB at 1.2KHz	
3.4	Resonance Frequency	1100Hz±20%	
3.5	Frequency Range	1000Hz ~5.0KHz	
3.6	Input Power	Rated 0.25W/Max. 0.5W	
3.7	Distortion	<15% at 0.8kHzs	0.1w(3.16V)sine wave
		<5% at 1.2kHz	
3.8	Buzz and Rattle	Should not be audible buzzes, rattles when the 5.0V sine wave signal swept at frequency range.(450Hz~5KHz)	
3.9	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.	

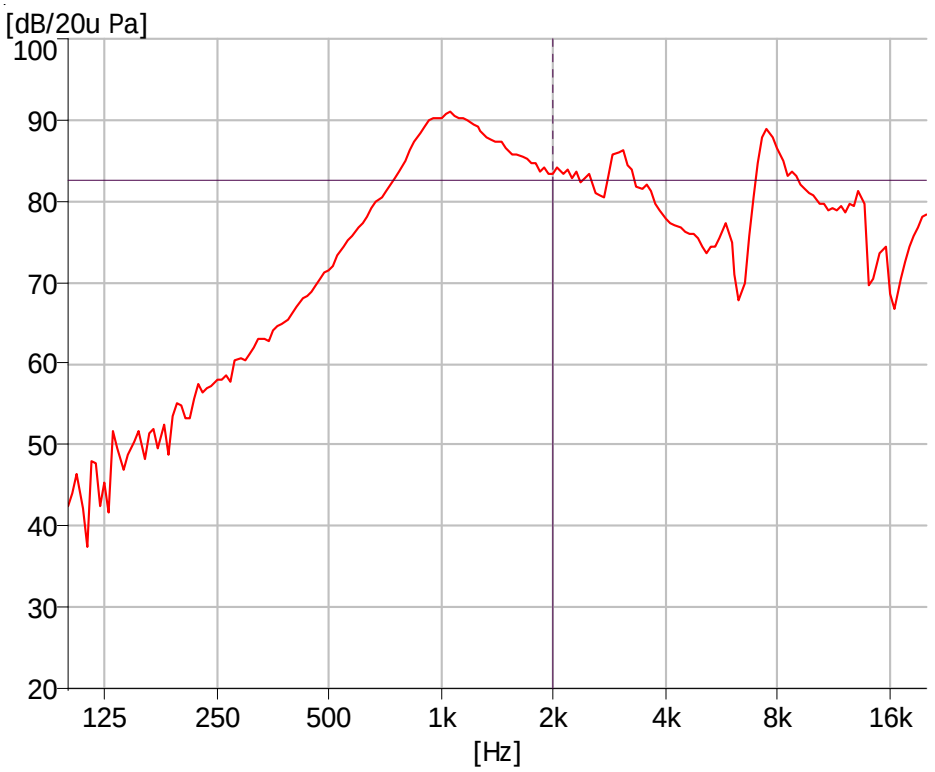
4. Reliability Test

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).

	Item	Specification
4.1	High Temperature Test	After being placed in a chamber with +90±3 ℃ for 96 hours and then being placed in natural condition for 3 hour, speaker shall be measured.
4.2	Low Temperature Test	After being placed in a chamber with -40±3 ℃ for 96 hours and then being placed in natural condition for 3 hour, speaker shall be measured.
4.3	Humidity Test	After being placed in a chamber with 95%R.H. at +40±3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4.4	Thermal Shock Test	After being placed in a chamber at +90 ℃ for 1 hour, then speaker shall be placed in a chamber at -40℃ for 1 hour(1 cycle). After 5 above cycles, speaker shall be measured after being placed in natural condition for 3 hours
4.5	Vibration Test	10~55~10Hz sin-wave sweep 15min.5G(constant) X,Y,Z 3 direction.2 hours each,total 6hours
4.6	Drop Test	Free drop from 75cm height to a board of 20mm thick,tatal 10 times
4.7	Load test	After being applied loading white noise with input power 0.25W (5Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
4.8	Max Power test	Max pewer 1 min on -2 min off 10 cycles

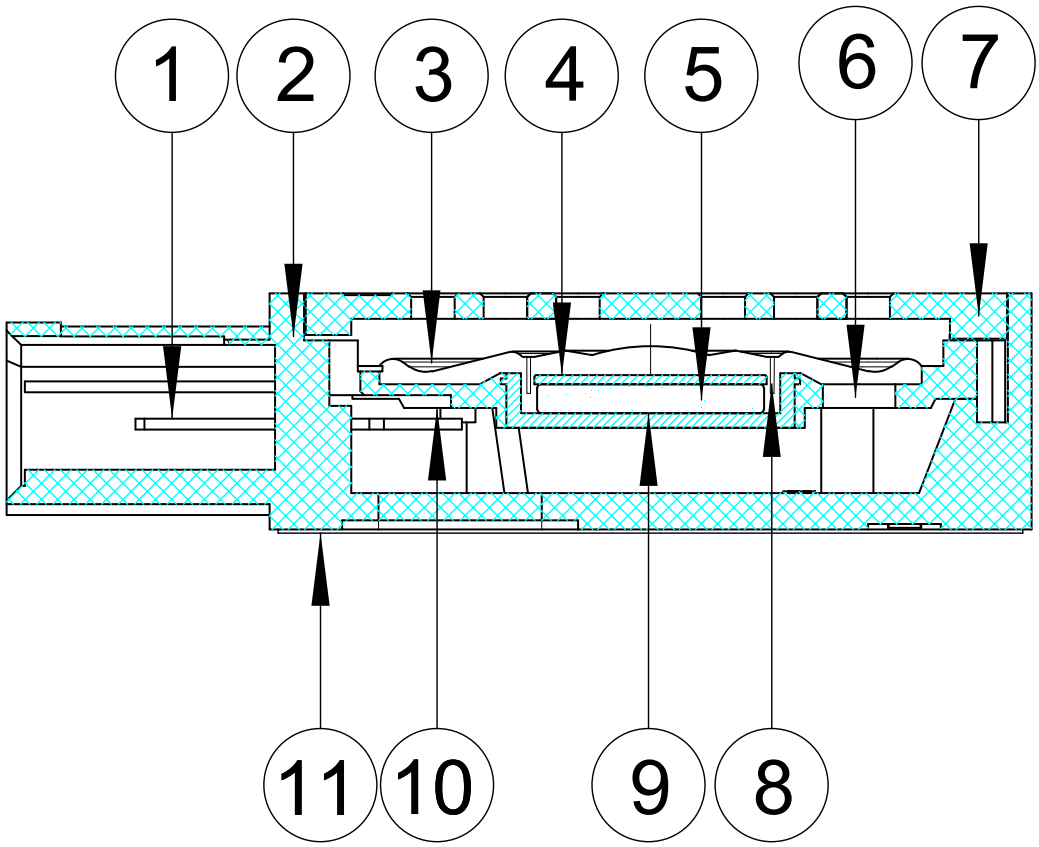
5. Measurement Block Diagram & Response curve





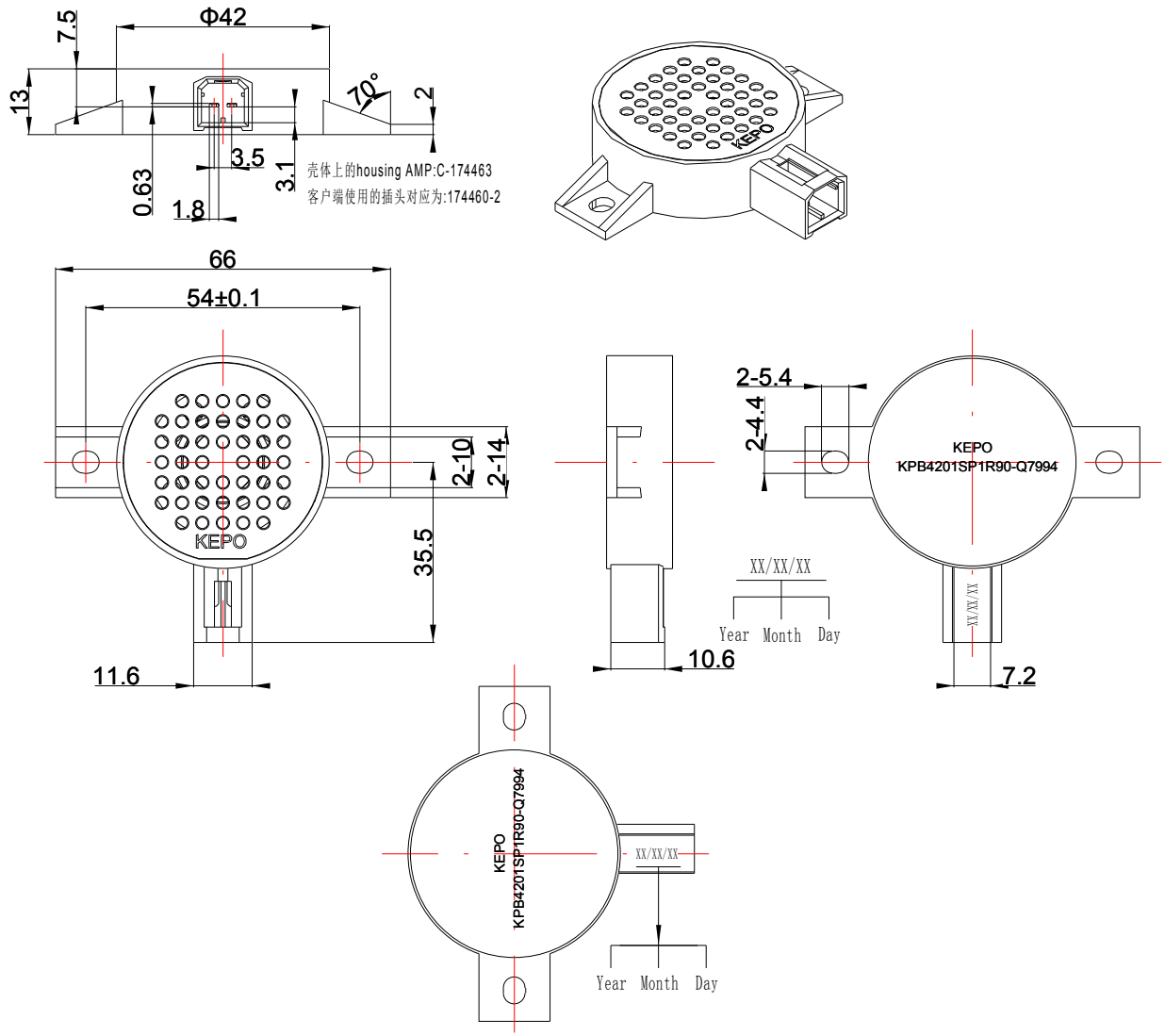
Cursor values
X: 2.000k Hz
Y: 83.286 dB/20u Pa
Z:

6. Structure



No.	Part Name	Q'ty	Material	Remarks
11	Housing	1	PPE+PS-GF20 Black	
10	PCB	1	FR-4	
9	YOKE	1	SPCC	
8	Voice Coil	1	Copper	
7	Protector	1	PPE+PS-GF20 Black	
6	Frame	1	PPE+PS-GF20 Black	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PEI	
2	Protector	1	PPE+PS-GF20 Black	
1	Connector Pin	2	QSn6.5-0.1 Y2 Ep.NI0.002 Sn0.007	

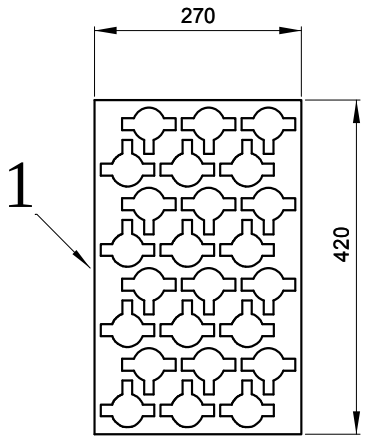
8. Dimensions 尺寸



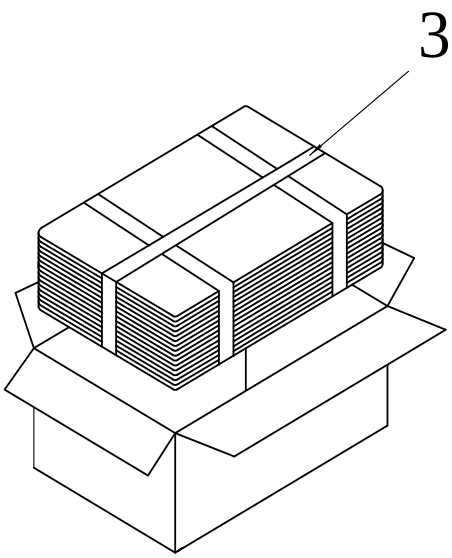
未注尺寸公差：±0.3mm,未注角度公差：±1°

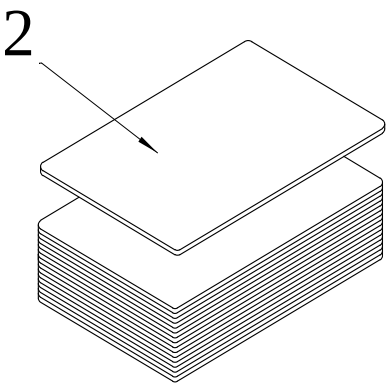
FIRST ANGLE PROJECTION : UNIT : mm

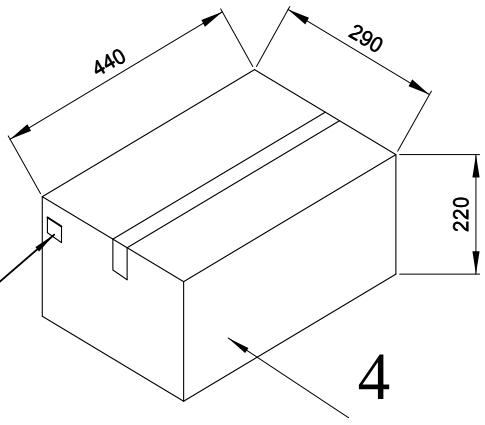
8. Packing



24Pcs







侧唛标贴
贴于两侧侧唛左上角

物料名称：喇叭
供应商编码：B133002
物料编码：BCD290001
规格型号：KPB4201SP1R90-Q7994
批　次：170515001
数　量：240PCS
生产批号：20190330
供应商名称：宁波凯普电子有限公司

QTY:240Pcs

425 x275 x220