

Specification for Speaker	Page	2/8
	Revision No.	1.2
Model No. : KPB3201R65-6692	Drawing No.	KFC6692

CONTENTS

1. Scope
2. General
3. Electrical and Acoustic Characteristics.
4. Reliability Test
5. Measurement Block Diagram & Response curve
6. Dimensions
7. Packing
8. Revision

Specification for Speaker

Page

3/8

Revision No.

1.2

Model No. : KPB3201R65-6692

Drawing No.

KFC6692

1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.

- compact, rich sound
- applications: auto-electron

2. General

- 2.1 Out-Diameter : 31 mm
- 2.2 Height : 14.8 mm
- 2.3 Weight : 9 g
- 2.4 Operating Temperature range:
-40~+100℃ without loss of function
- 2.5 Store Temperature range:
-40~+120℃ without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification
1	Impedance	67 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	≥84dB (0.2W/10CM at 600Hz Rectangle pulse wave)
		≥95dB (0.2W/10CM at 2900Hz Rectangle pulse wave)
		Typ 91dB at 600Hz,0.2W/10CM
3	Resonance Frequency	700 Hz ± 20%
4	Frequency Range	Fo ~4KHz
5	Input Power	Rated 0.2 W / Max. 0.4 W
6	Distortion	10% Max. at 2kHz/3.66Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 3.66V sine wave signal swept at frequency range.
8	Electrical polarity	When "+" votag is appllied to "+" terminal, the diaphragm should move to forward.
9	Terminal strength	22.2N(Pulled in the direction along the pin axis.)

Specification for Speaker

Page 4/8

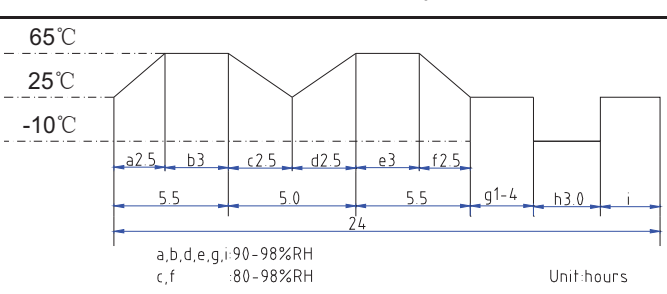
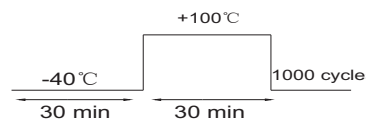
Revision No. 1.2

Model No. : KPB3201R65-6692

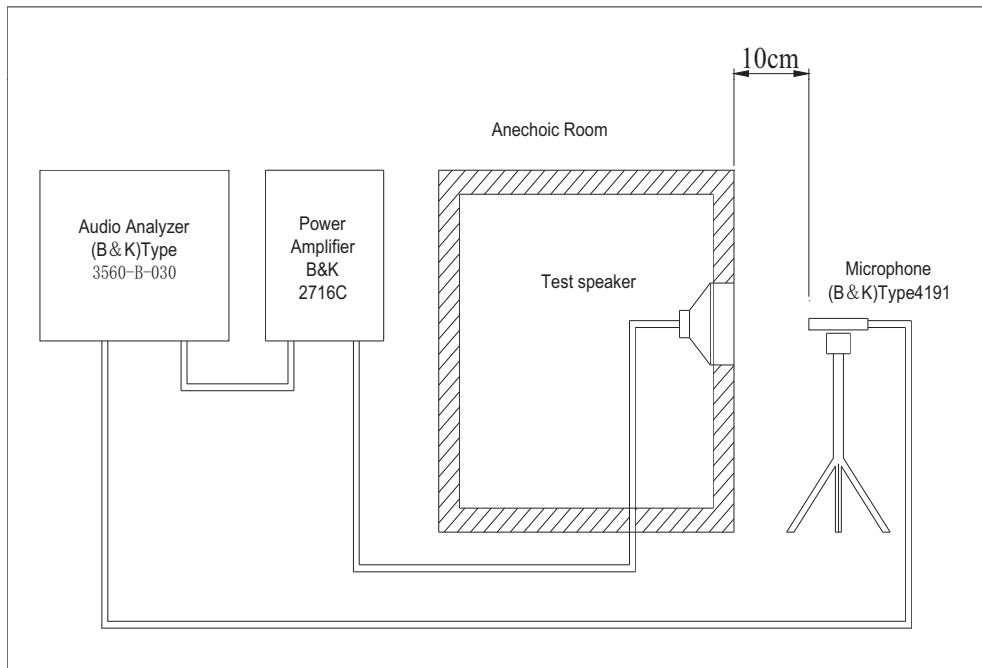
Drawing No. KFC6692

4. Reliability Test

After test(1~11item), the speaker shall meet specifications without any degradation in appearance and performance and performance except SPL .spl≥79dB/600Hz,spl≥87dB/2900Hz,at condition of general specification #4.

No	Items	Specification
1	High Temp.Test	After being placed in a chamber with +120℃ ±3℃ for 1000 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temp.Test	After being placed in a chamber with -40±3℃ for 1000 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	 <p>The diagram shows a humidity test profile over 24 hours. The temperature starts at -10°C, rises to 25°C at point 'a', stays at 25°C until point 'b', then drops to -10°C until point 'c'. It then rises to 65°C at point 'd', stays at 65°C until point 'e', drops to 25°C until point 'f', rises to 65°C until point 'g', stays at 65°C until point 'h', drops to 25°C until point 'i', and finally rises to 65°C. The total duration is 24 hours. Below the diagram, it specifies: a,b,d,e,g,i: 90-98%RH; c,f: 80-98%RH. Unit: hours.</p>
4	Thermal Shock Test	 <p>The diagram shows a thermal shock test profile. It starts at -40°C for 30 minutes, then jumps to +100°C for 30 minutes. This cycle is repeated 1000 times.</p>
5	Vibration Test	44.1m/s ² =4.5Grms(10,20,40,800,1000Hz) X,Y,Z 3 directions each 2hours
6	Shock Test	4900m/s ² =500G,1ms X,Y,Z 3 directions each 5times
7	Fixed Drop Test	Fix on PCB by solder with the case,then drop from 1m height to the concrete floor X,Y,Z, 6 direction ,1 time (total 6 times).
8	Free Drop Test	Free drop on concrete 1m height. Every 3 surfaces 1 time. Total 6 times.
9	High Temp.life test	100℃,White noise 0.4W.input,500hours
10	Low Temp.life test	-40℃,Rectangle Pulse 600Hz.0.2W.input,500hours
11	Room Temp. life	Room Temp.input:Rectangle Pulse 600Hz 0.2W.input,1000hours
12	Solder Heat Resistance	Solder temperature 350 ±10℃ Soaking time 3.5±0.5sec
13	Solderability	Soldering into solderbath:Solder Temp.235±5℃ Soaking time 2±0.5sec
14	Terminal Tension	The terminal axis,Pull 2.27kgf 60±3sec,Push 1.0kgf 60±3sec,
15	Terminal Bending	(1)45°bending ,(2)-90°bending to against direction=±45°.
16	DC Voltage Test	DC 7V for 1 hours. No smoke No flame
17	Insulation Test	DC 100V Resistance ≥5Mohm

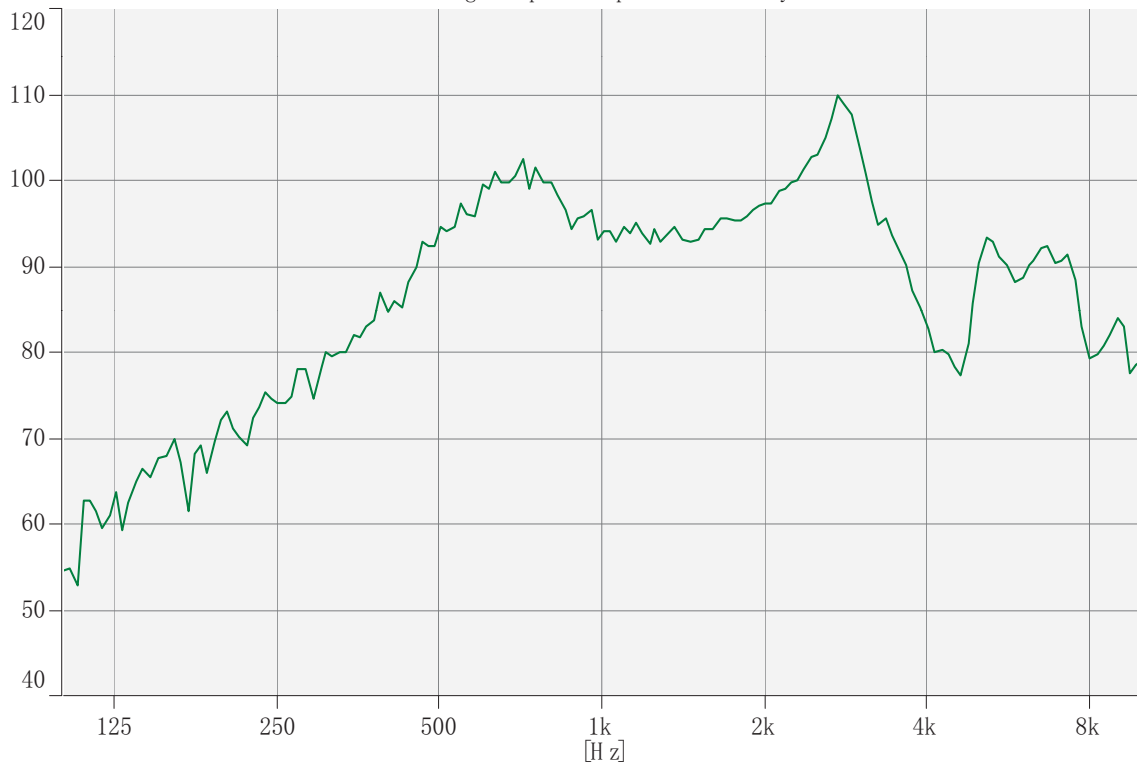
5. Measurement Block Diagram & Response curve



[dB/20.0u Pa]

Output Response (Signal) - Input (Magnitude)

Working : Input : Input : SSR Analyzer

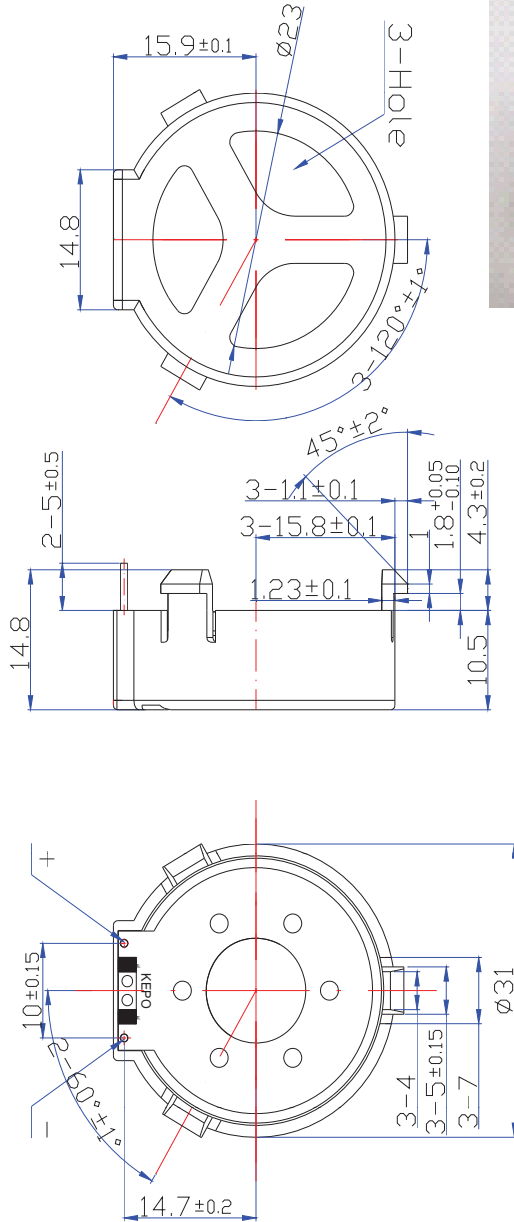


Specification for Speaker

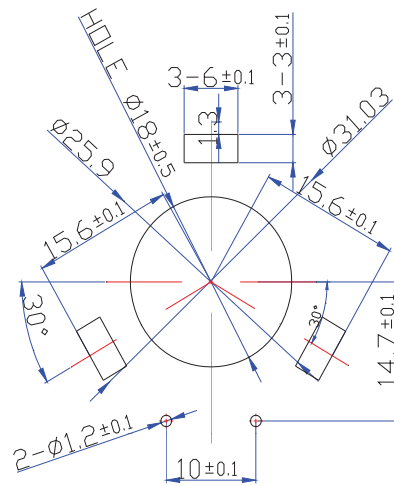
Page	6/8
Revision No.	1.2
Drawing No.	KFC6692

Model No. : KPB3201R65-6692

7. Dimensions

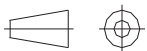


DATE CODE "YEAR WEEK"



$t = 1.6 \text{mm} \pm 0.1 \text{mm}$
Recommended-PCB

FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.3

Specification for Speaker

Page

7/8

Model No. : KPB3201R65-6692

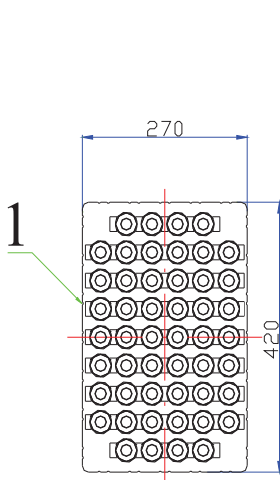
Revision No.

1.2

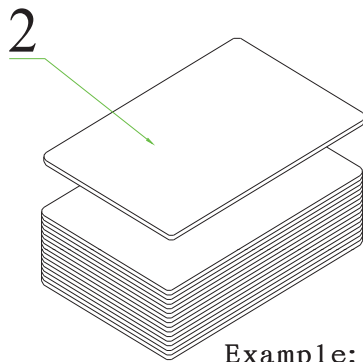
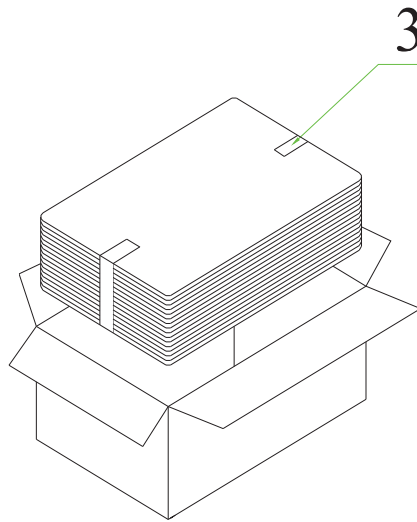
Drawing No.

KFC6692

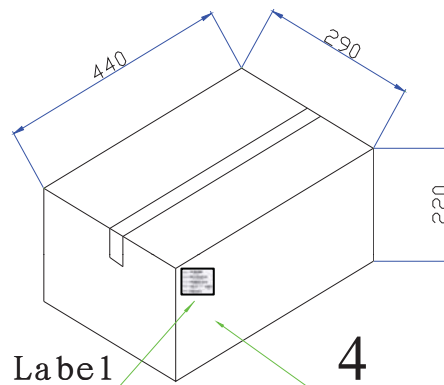
8. Packing



50Pcs



Example: Label



(O) PO		YE154733
(P) P/N		VP7HFF18808AA
(L) LOT		NKP2014111111
(V) SUP		EL4GA
(Q) QTY		500
(D) DATE		2014-11-11

QTY: 500Pcs
440 x290 x220