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KP3642ST3R8F350-Q00002	Drawing No.	303-0204-00002

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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:36mm
- 2.2 Height: 4.2mm
- 2.3 Weight:6.5g
- 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

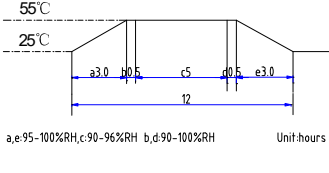
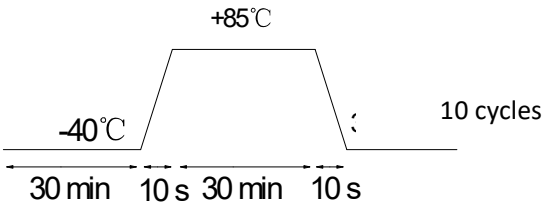
Test condition : 15 ~ 35 °C , 25% ~ 85% RH, 860~1060 mbar

	Item	Specification
3.1	Impedance	8Ω±15%(1Vrms at 2KHz)
3.2	Sound Pressure Level	78dB±3dB @0.1W/0.5M at 1.0kHz
3.3	Resonance Frequency	350Hz±20%
3.4	Frequency Range	350 ~17KHz
3.5	Input Power	Rated1.0W/Max. 1.5W
3.6	Distortion	<5% Max. at 1kHz/2.83Vrms
3.7	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.83Vrms sine wave signal swept at frequency range.
3.8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

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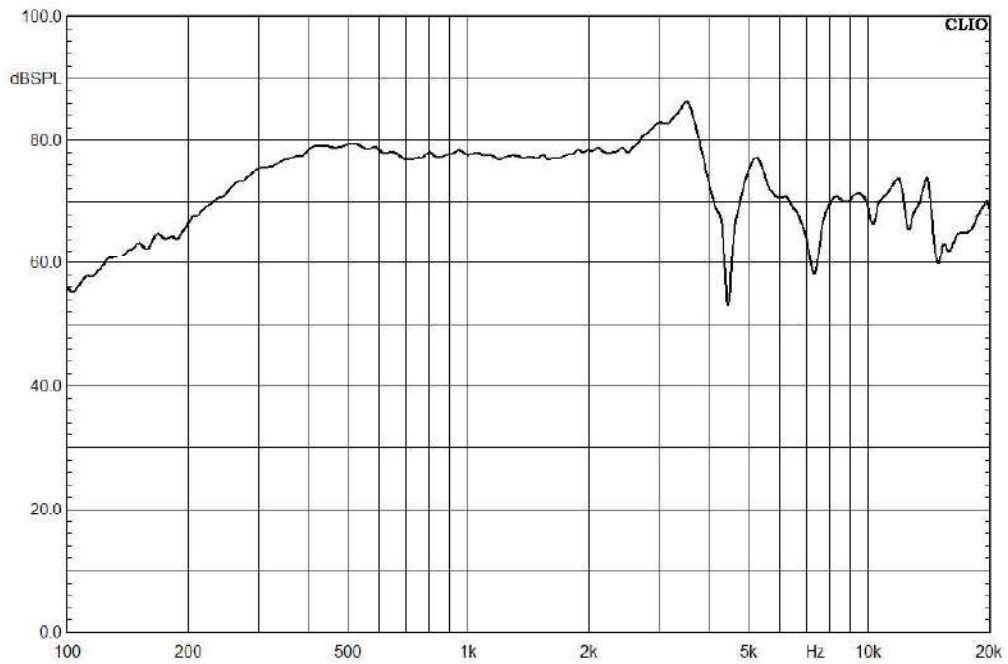
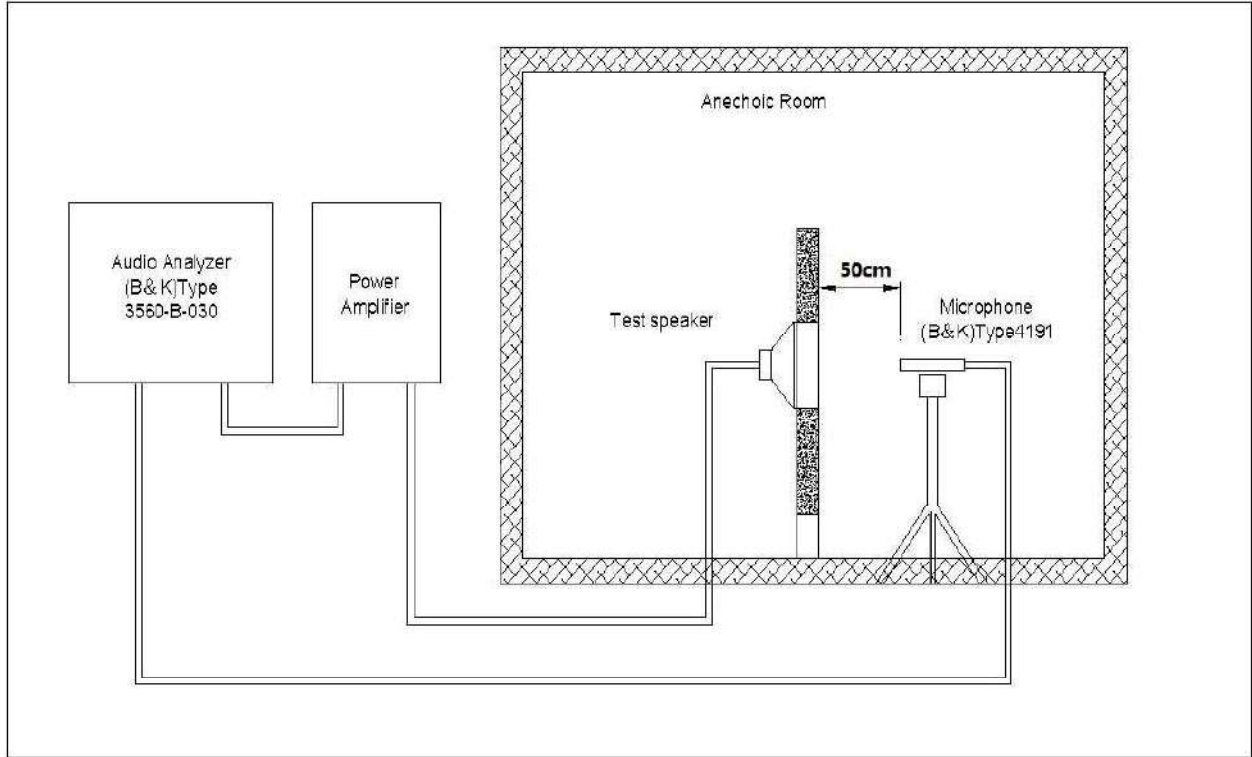
4. Reliability Test

After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3\text{dB}$, 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 $+90 \pm 3 \text{ }^\circ\text{C}$ for 200 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4.2	Low Temperature Test	After being placed in a chamber with $-40 \pm 3 \text{ }^\circ\text{C}$ for 200 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4.3	Humidity Test	 <p style="text-align: center;">6 cycles</p>
4.4	Thermal Shock Test	<p>After being placed in a chamber at $+85 \text{ }^\circ\text{C}$ for 30 min, then speaker shall be placed in a chamber at $-40 \text{ }^\circ\text{C}$ for 30 min(1 cycle is the below diagram). After 10 above cycles, speaker shall be measured after being placed in natural condition for 1 hour.</p>  <p style="text-align: center;">10 cycles</p>
4.5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz 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.
4.6	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.
4.7	Load test	After being applied loading white noise with input power 1.0W(2.83Vrms.) for 200 hours, then placed in natural condition for 1 hour, speaker shall be measured.
4.8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 M Ω

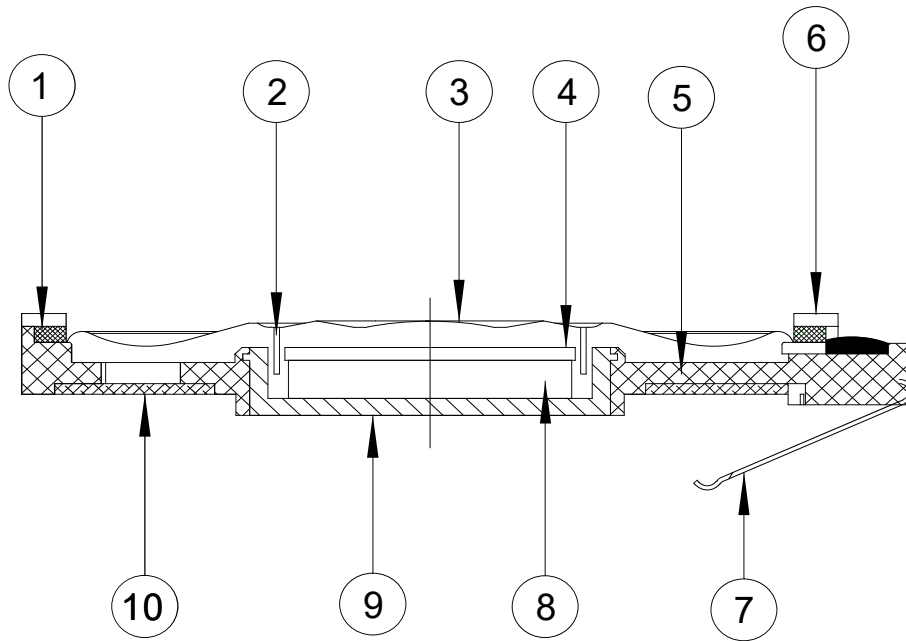
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5. Measurement Block Diagram & Response curve



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6. Structure



10	Screen	1	Unwoven Fabric	
9	U YOKE	1	SPCC	
8	Magnet	1	Nd-Fe-B	
7	Spring	2	SUS301H	
6	Gasket	1	EVA	
5	Frame	1	PPA	
4	Plate	1	SPCC	
3	Diaphragm	1	PEI	
2	Voice Coil	1	Copper	
1	Gasket	1	PBT	
No.	Part Name	Q'ty	Material	Remarks

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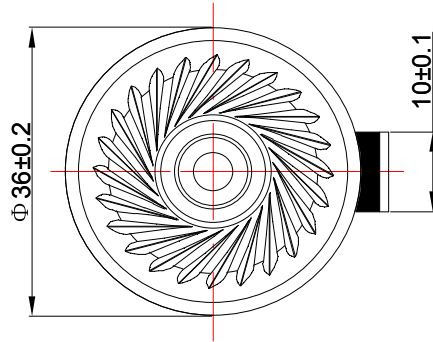
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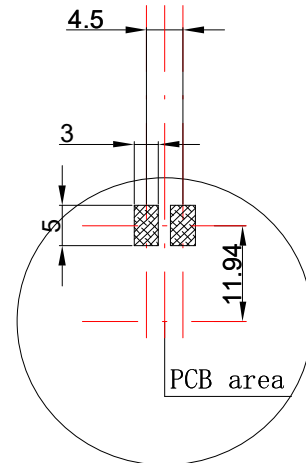
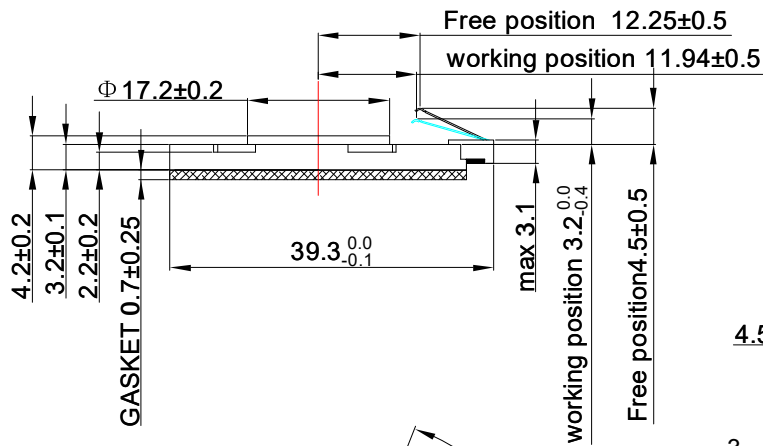
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8. Dimensions



1. 弹片弹力要求: 压至工作位置56小时后, 每个弹片弹力 $\geq 0.5\text{N}$
2. 弹片要求表面镀金; 厚度 $\geq 0.2\mu\text{m}$

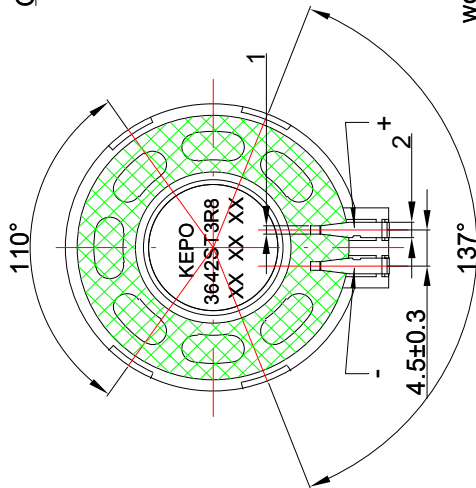


PCB接触区域布局图

KEPO
3642ST3R8
XX XX XX

Date Code

Example
ex) 13 11 05
-13:the year 2013
-02:the Month
-19:the Day



FIRST ANGLE PROJECTION: UNIT : mm

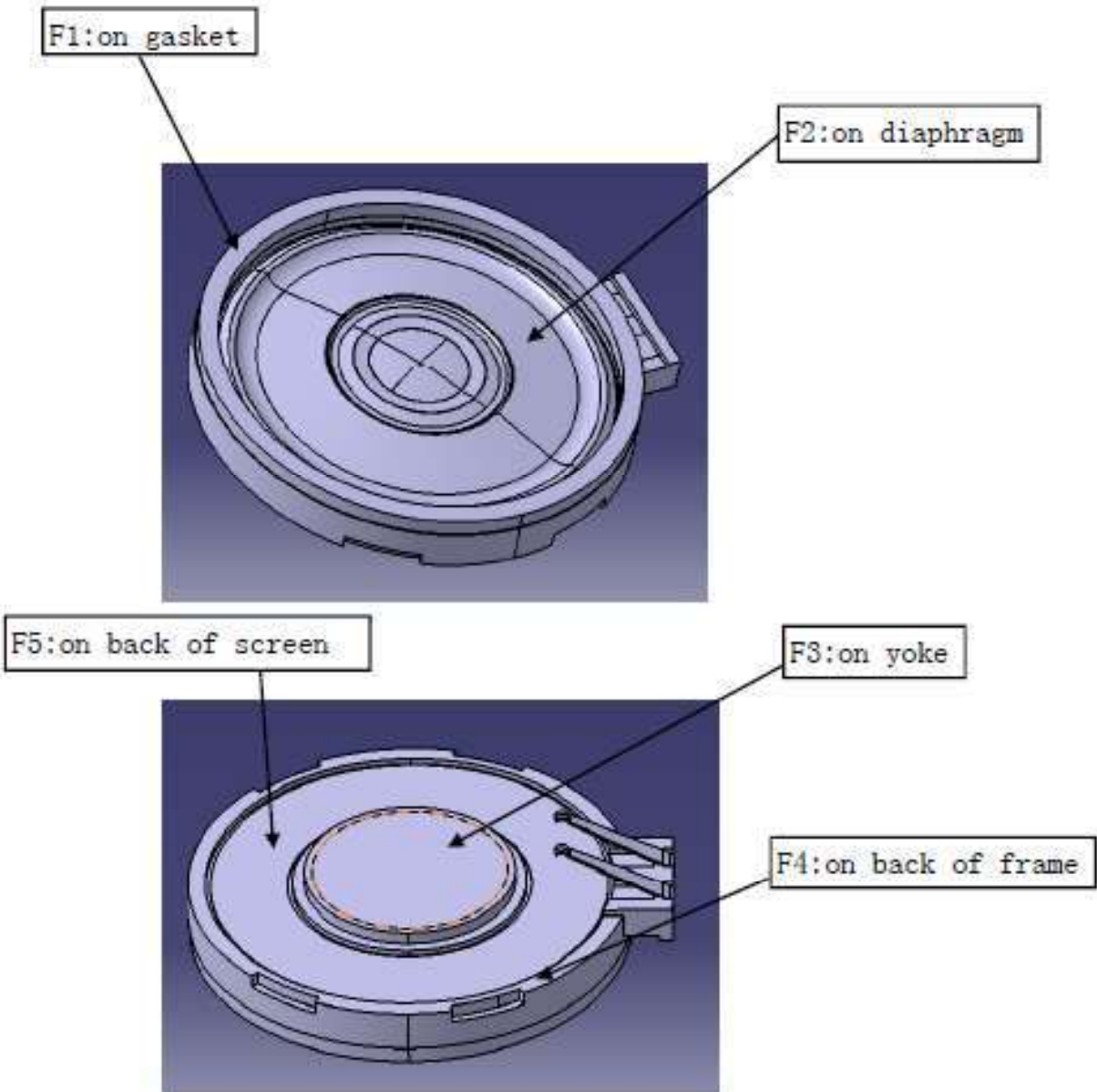
Tolerance: $\pm 0.5\text{mm}$

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8. Permitted force to Speaker

Max. Permitted compression forces:

No.	from	to	Max force
1	F1	F3	10 N
2	F2		0 N
3	F4	F1	50 N
4	F5	F1	10 N



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9. Packing



SIZE:340X240X24mm

每盒装35PCS喇叭



包装外箱: 350x250x210
每箱11盒, 最顶部一盒不放产品

45x