

# SPECIFICATION

受 控

Customer :

Applied To :

Product Name : SPEAKER

Model Name : KP3246SP1FR4-7526

Drawing No. : KFC7526

Signature of Appronal

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Signature of KEPO

Approved by	Checkde by	Issued by	Date
			



宁波凯普电子有限公司

Ningbo Kepo Electronics Co.,Ltd.

宁波东钱湖镇东钱湖工业区宝源路 25 号

TEL:+86-574-88370330 FAX:+86-574-88370329

No.25 Baoyuan road Dongqian Lake, Industry Area, Dongqian town,Ningbo City,

China(Post Code:315121)

[Sales@chinaacoustic.com](mailto:Sales@chinaacoustic.com)

[www.chinaacoustic.com](http://www.chinaacoustic.com)

Specification for Speaker		Page	2/9
Model No. : KP3246SP1FR4-7526		Revision No.	1.1
		Drawing No.	KFC7526
<h2>CONTENTS</h2> <ol style="list-style-type: none"><li>1. Scope</li><li>2. General</li><li>3. Electrical and Acoustic Characteristics.</li><li>4. Reliability Test</li><li>5. Measurement Block Diagram &amp; Response curve</li><li>6. Structure</li><li>7. Dimensions</li><li>8. Packing</li><li>9. Revision</li></ol>			

# Specification for Speaker

Page

3/9

Revision No.

1.1

Model No. : KP3246SP1FR4-7526

Drawing No.

KFC7526

## 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 : 32 mm

2.2 Height : 6.8 mm

2.3 Weight : 8.6 g

2.4 Operating Temperature range:

-30 ~+70 °C without loss of function

2.5 Store Temperature range:

-40 ~+85 °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	4 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	90 dB ± 3dB (0.1w/0.1m at AVG 0.8,1.0,1.2,1.5KHz)
3	Resonance Frequency	400 Hz ± 20%
4	Frequency Range	Fo ~20KHz
5	Input Power	Rated 2 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.

Specification for Speaker	Page	4/9
	Revision No.	1.1
Model No. : KP3246SP1FR4-7526	Drawing No.	KFC7526

#### 4. Reliability Test

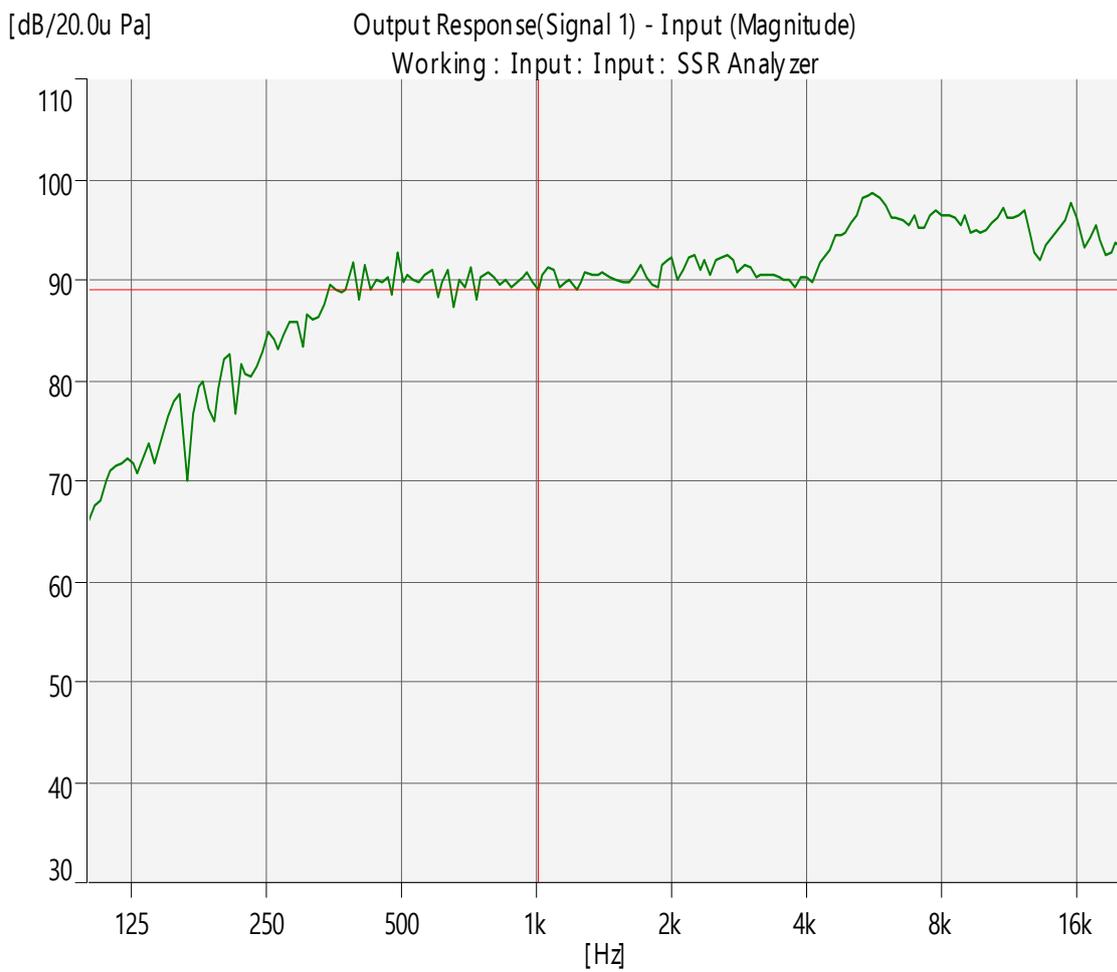
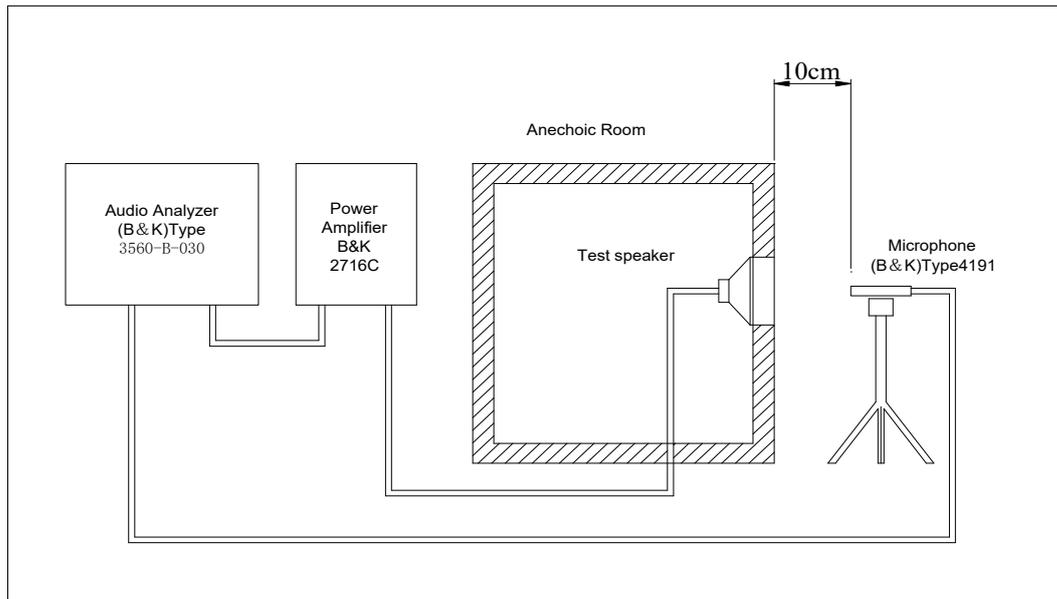
After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 3\text{dB}$ , and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+85 \pm 3 \text{ }^\circ\text{C}$ 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 $-40 \pm 3 \text{ }^\circ\text{C}$ 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 $+40 \pm 2 \text{ }^\circ\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	<p>After being placed in a chamber at <math>+70 \text{ }^\circ\text{C}</math> for 1 hour, then speaker shall be placed in a chamber at <math>-30 \text{ }^\circ\text{C}</math> for 1 hour(1 cycle is the below diagram).</p> <p>After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec.</p>
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.
6	Drop Test	The speaker free drop, 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 2W(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 $1 \text{ M}\Omega$

Specification for Speaker	Page	5/9
	Revision No.	1.1
Model No. : KP3246SP1FR4-7526	Drawing No.	KFC7526

#### 5. Measurement Block Diagram & Response curve

## 3. MEASUREMENT BLOCK DIAGRAM & RESPONSE CURVE



# Specification for Speaker

Page

6/9

Revision No.

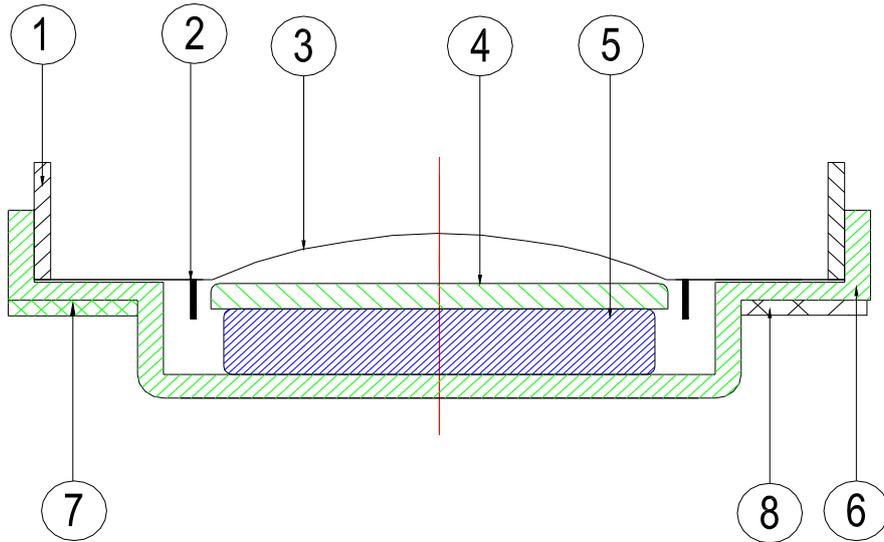
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Model No. : KP3246SP1FR4-7526

Drawing No.

KFC7526

## 6. Structure



No.	Part Name	Q'ty	Material	Remarks
8	Screen	1	5B	
7	Terminal	1	Epoxy PCB	
6	Frame	1	SPCC	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PEN	
2	Voice Coil	1	Copper+PSV	
1	Gasket	1	Paper	

# Specification for Speaker

Page

7/9

Revision No.

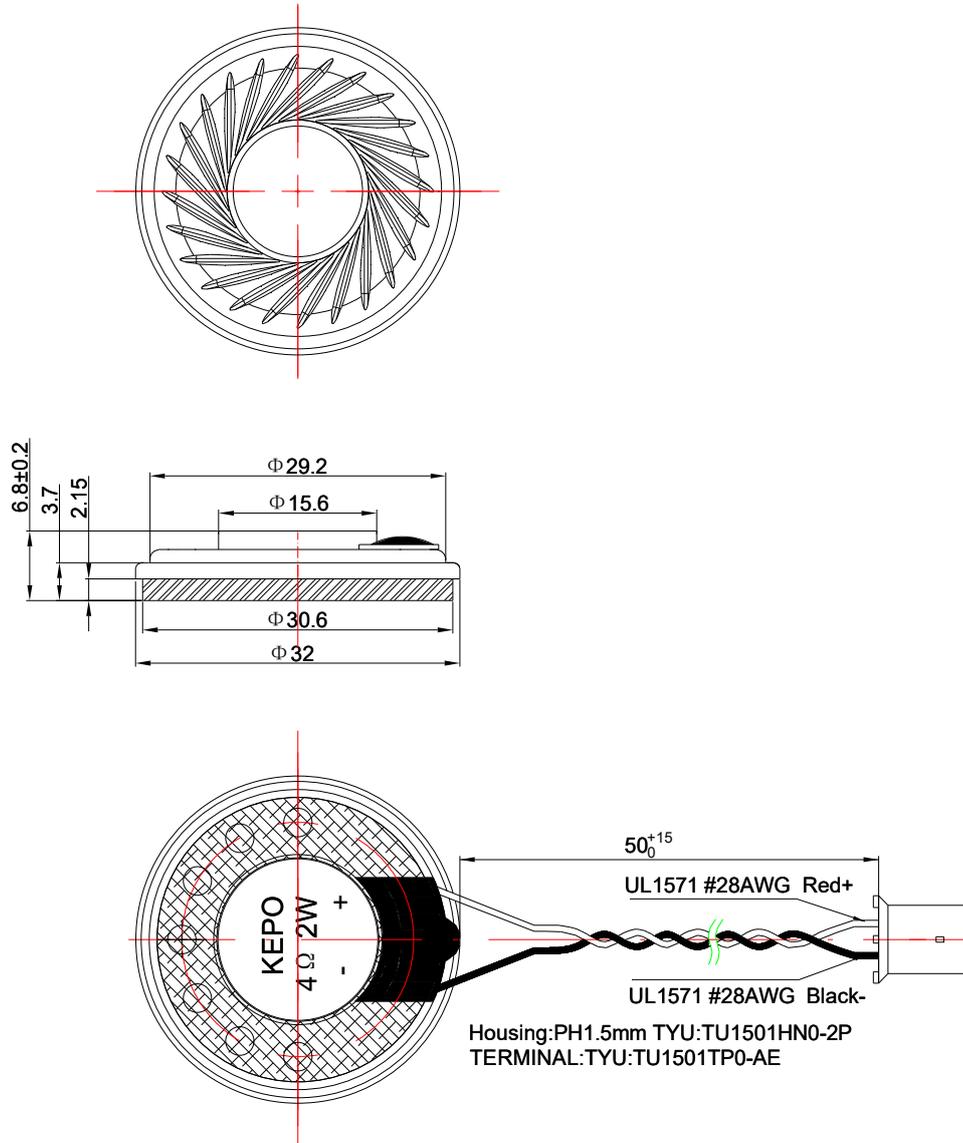
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Model No. : KP3246SP1FR4-7526

Drawing No.

KFC7526

## 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance :  $\pm 0.2$

# Specification for Speaker

Page

8/9

Revision No.

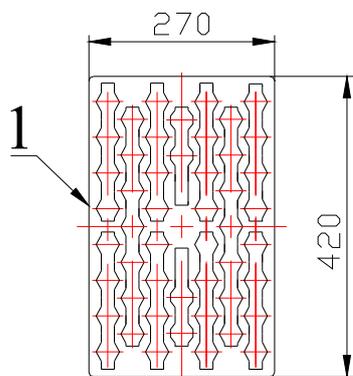
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Model No. : KP3246SP1FR4-7526

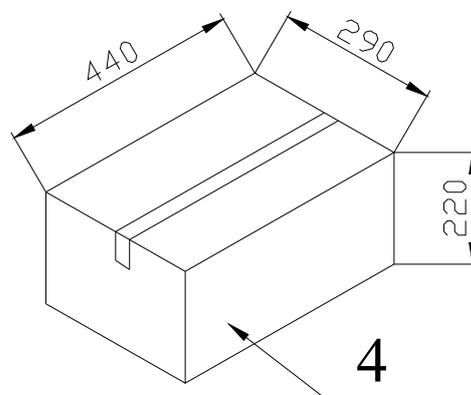
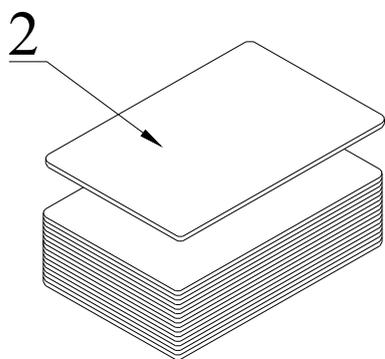
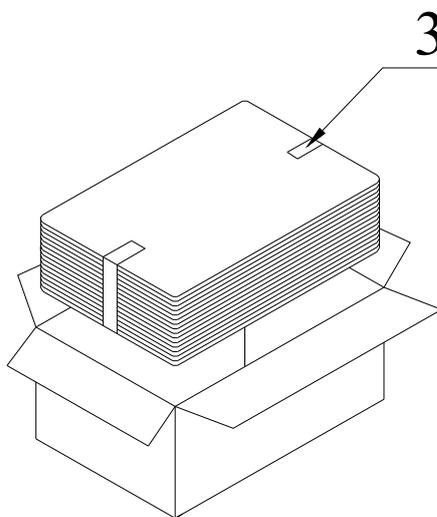
Drawing No.

KFC7526

## 8. Packing



50Pcs



QTY: 800Pcs

440 x290 x220

