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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
 : 31 mm

 2.2 Height
 : 14.8 mm

 2.3 Weight
 : 8.3 g

2.4 Operating Temperature range:

-40~+105°C 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	45 Ω $\pm$ 15% (1Vrms at 1KHz)				
		≥90dB (0.4W/15.24CM at 440Hz-2kHz )				
2	Sound Pressure Level	Typ 92dB at 440Hz				
	Sound Pressure Level	Typ 92dB at 750Hz				
		Typ 91dB at 1kHz				
3	Resonance Frequency	500 Hz ± 20%				
4	Frequency Range	Fo ~10KHz				
5	Input Power	Rated 0.4 W / Max. 0.5 W for 1 min.				
6	Distortion	10% Max. at 440-2kHz/4.24Vrms				
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 4.24V sine wave signal swept at frequency range.				
8	Electrical polaritiy	When "+" votag is apllied to "+" terminal, the diaphragm should move to forward.				

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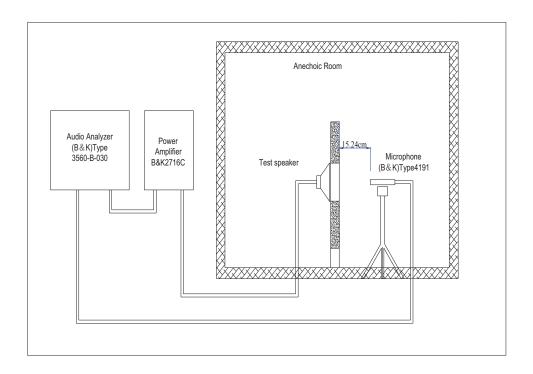
## 4. Reliability Test

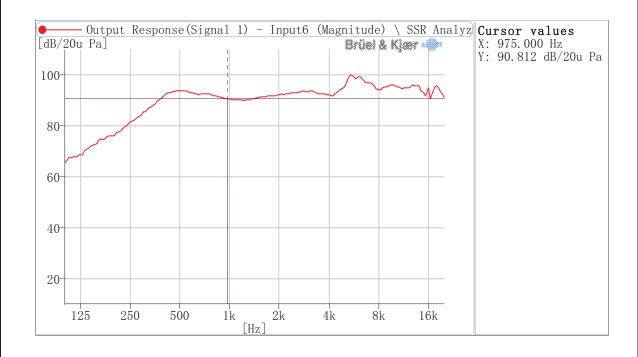
After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 3 dB$ , and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification		
1	High Temperature Test	After being placed in a chamber with $+120^{\circ}\!$		
2	Low Temperature Test	After being placed in a chamber with -40±3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.		
3	Humidity Test	65°C  25°C  -10°C  a25 b3 c25 d25 e3 f25  5.5 5.0 5.5 g1-4 h3.0 i  a,b,d,e,g,i,90-98%RH  c,f :80-98%RH  Unit:hours		
4	Thermal Shock Test	+105°C  -40°C		
5	Vibration Test	Test under he condition at the packaging  Vibration: 10Hz 200Hz 10Hz/Sweep time 15min,49m/s²  Accelarion: 49m/s²(一定/const.)  Duration: 2 hour in each of X,Y,Z 3 axes (Total 6h)		
6	Fixed Drop Test	Fix onto standard jig, then drop from 1m height to the concrete floor X,Y,Z, 6 direction ,1 time (total 6 times).		
7	Load test	After being applied loading white noise with input power 0.4W(4.24Vrms.) for 1000 hours, then placed in natural condition for 1 hour, speaker shall be measured.		
8	High Temp.life test	105℃,440Hz.0.4W.input,500hours		
9	Low Temp.life test	-40 °C ,440Hz.0.4W.input,500hours		
10	Max input test	Room temp.input:440Hz.0.4W.1min/on-2min/off.10 cycles		
11	Solder Heat Resistance	<ul> <li>1.Soldering into solder bath,</li> <li>2. Solder temperature 350 ±10 °C Soaking time 3.5±0.5sec</li> <li>3. Solder temperature 270 ±10 °C Soaking time 10±1sec</li> </ul>		
12	Solderability	Pretreatment:40°C,90-95%RHx240hrs Soldering into solderbath:Solder Temp.265±5°C Soaking time 2±0.5sec		
13	Free drop	Free drop on concrte 1m height. Every 3 surfaceX 1time.Total 3 times.		

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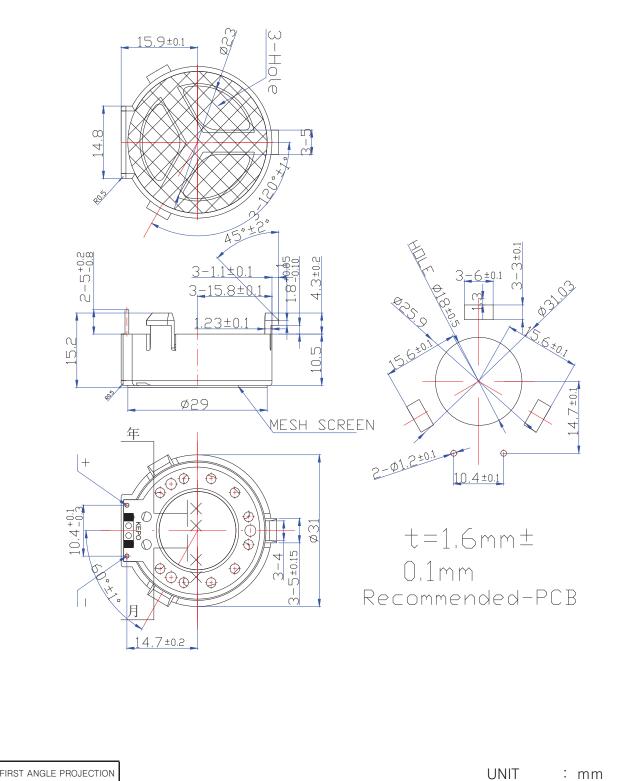
## 5. Measurement Block Diagram & Response curve





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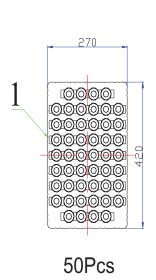
#### 7. Dimensions

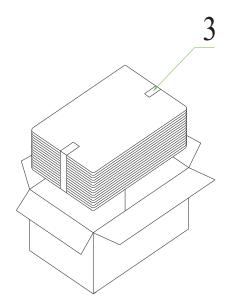


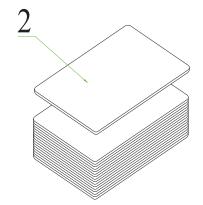
Tolerance :  $\pm 0.3$ 

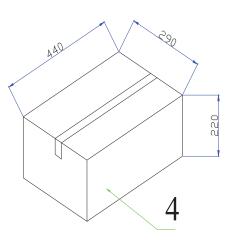
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# 8. Packing









QTY: 400Pcs 440 x290 x220

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Rev. No.	DATE	PAGE	DESCRIPTION			вом
1.0	2012-7-31		Primary			
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### 10.环境法规定限制物质等 全废证明书 (Ver.5.10)

IV. 含有物质填写栏(含有率指, 以均质材料的重量为分母的浓度。 杂质也为对象。)

规定限制物质名称	含有率ppm	用途、部位	本公司注释
镉(カドミウム)	6	磁钢(用于产品磁路系统)(磁石)	
铅 (鉛)	14	磁钢(用于产品磁路系统)(磁石)	
铅 (鉛)	25	接插件中的金属端子(用于产品的引出系统)(コネクターの金属端子)	
铅 (鉛)	16	SC-121胶(用于产品的引出系统保护)(SC-121接 着剤)	
铅 (鉛)	31	无铅焊锡丝中的锡(用于产品的连接)(鉛フリーソ ルダリングの錫)	
铅 (鉛)	8	无铅焊锡丝中的松香(用于产品的连接)(鉛フリー ソルダリングのコロホニー)	
铅 (鉛)	23.5	INK	

若一级供应商为商社或代理店:"一级供应商"栏由商社或代理店填写,"二级供应商"由制造厂家填写。若一级供应商为制造厂家:请在"一级供应商"栏中填写。"二级供应商"的栏可为空栏。

一级供应商					司盖章或负责人盖章
发行日期		2009. 03. 31			
公司名称 部门名称		テ波凯普电子有限公司 品質管理部 スピーカー管理チー			么 丰 1
负责人姓名/经办人姓名 章雪萍(ZHANG XUE PING)			负责人 盖章		
联系处		TEL:86-574-88371186 FAX:86-574-88370329			
E-mail (经办人)	sales@kepo.com.cn				

二级供应商(必要时)						公司盖章或负责人盖章	
发行日期							
公司名称 部门名称							么 丰。 l
负责人姓名/经办人姓名							负责人 盖章
联系处		TEL:		FAX:			
E-mail (经办人)						] <sup>[</sup>	