

SPECIFICATION FOR APPROVAL

承 認 書

Description : Micro Dynamic Speaker

Kingstate Part No. : KDSG3520008-10W

Customer's Model No. : _____

Specification No. : POD-7212

Number Of The Edition : 1.3

CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by
韋 啟 貞 2009.4.22	譚 淑 玲 2009.04.17	Feng 04/09/09

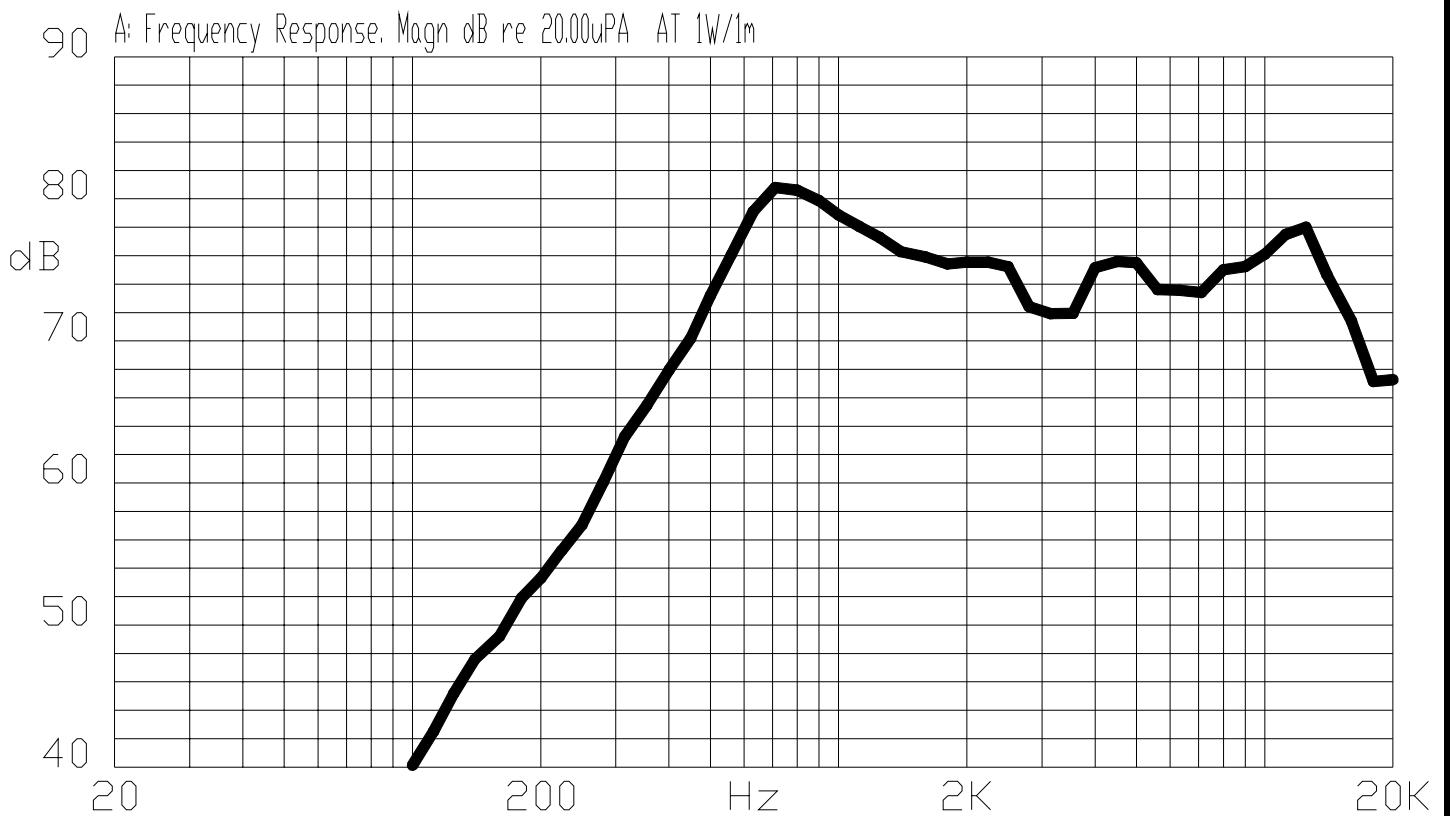
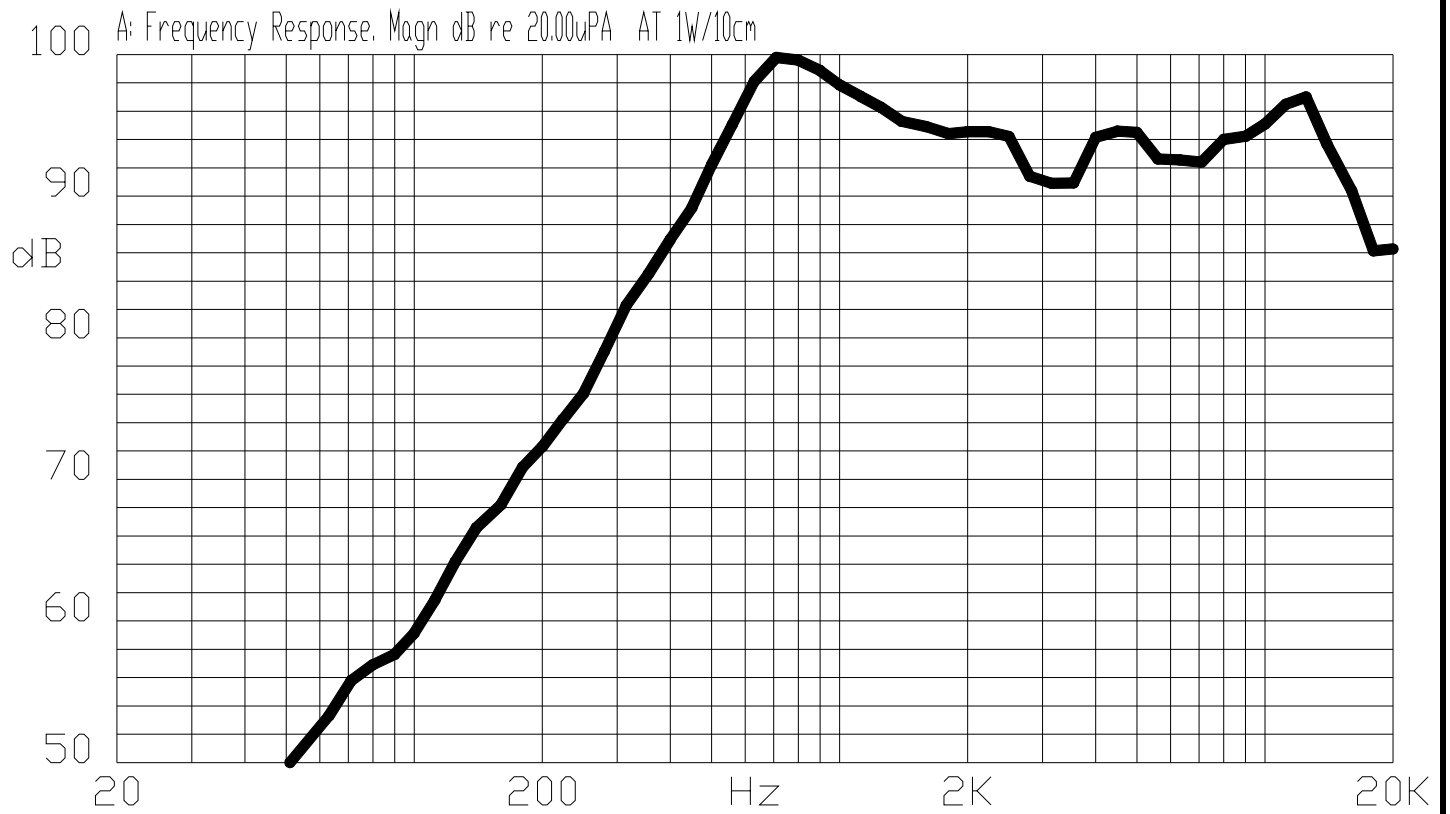
A. SCOPE 範疇

This specification applies speaker , **KDSG3520008-10W**
此規格書適用於喇叭 , **KDSG3520008-10W**

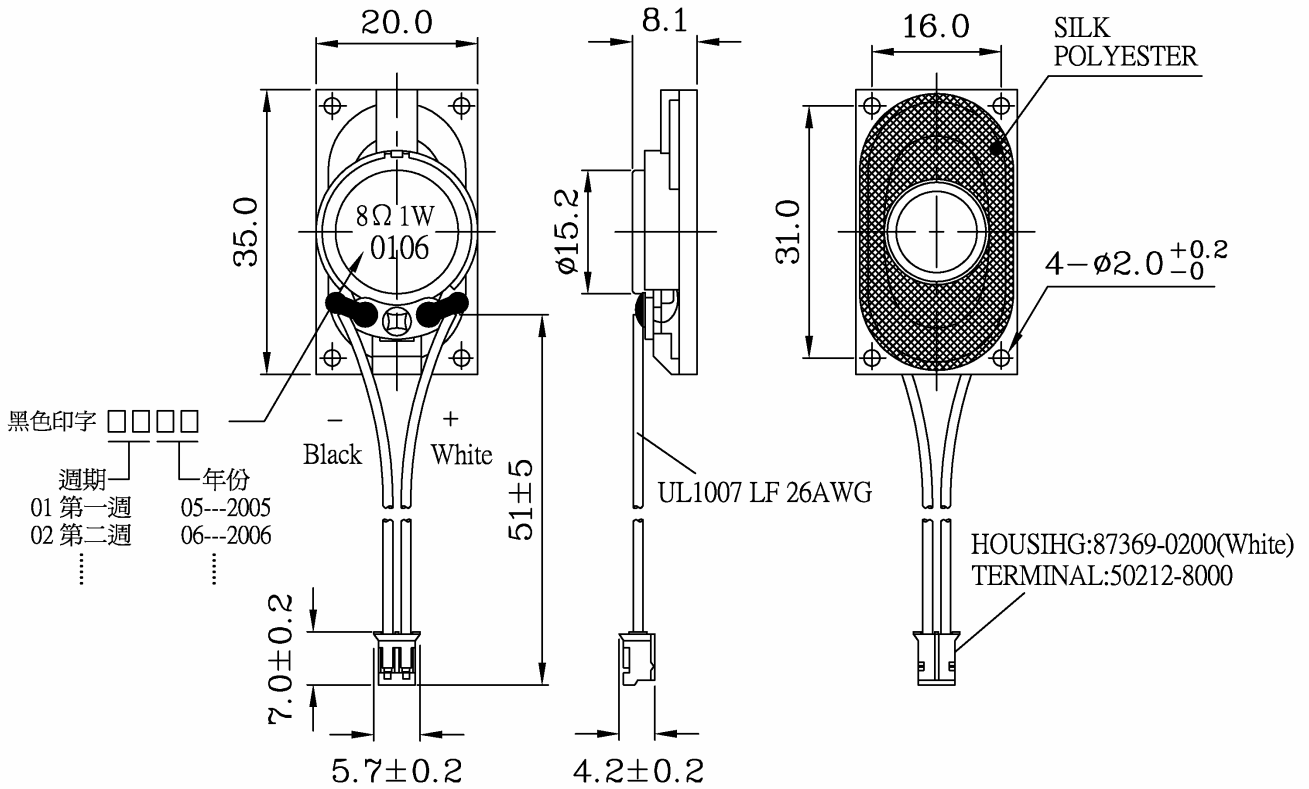
B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	H35.0 x W20.0 x H8.1	
2	Power Rating 功率		W	Rated. 1.0/ MAX. 1.5	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance 阻抗		ohm	8 ± 15%	At 1.5KHz 1.0V
4	Resonance Frequency 低音諧振	Fo	Hz	800 ± 20%	At, 1.0V
5	Output S.P.L. 音壓位準		dB	95±3dB(1w/10cm) 76±3dB(1w/1m)	At 1.0k,1.2k,1.5k,2.0KHz (Average figures)
6	Frequency Range 有效頻寬		Hz	Fo---10K	Output S.P.L. ±10dB
7	Distortion 失真		%	5% Max.	At 1.0KHz , 1.0W
8	Voice Coil 音圈		mm	-----	
9	Magnet 磁石		mm	-----	
10	Flux Density 磁通密度		Gauss	-----	
11	Operating temp. 操作溫度			- 20 ~ + 55	
12	Buzzer & Rattle 異常音				Not be audible at 2.83V sine wave between Fo ~ 10KHz 輸入 2.83V 正弦波從 Fo 到 10KHz 之間無異常音
13	Weight 重量		g	6.6	
14	Material 材質			ABS	
15	Environmental Protection Regulation 環保法規			RoHS	

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

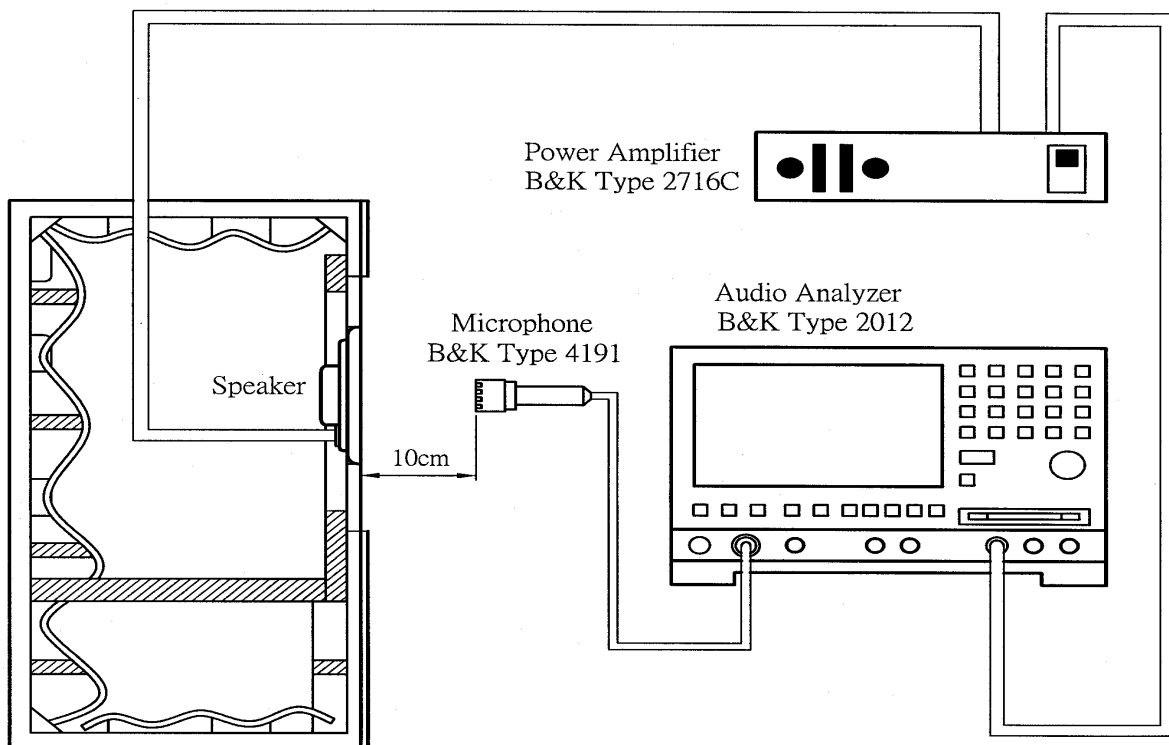


D. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.3
Unit : mm

E. MEASUREMENT CIRCUIT 測量線路

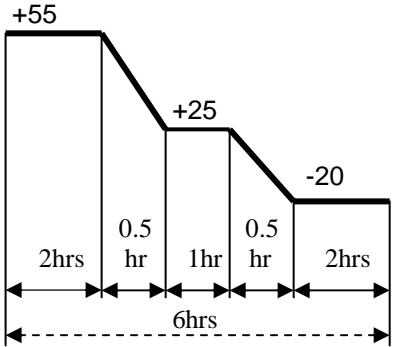


JIS C5531
 940mm x 640mm x 1240mm

F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	Evaluation standard
1	Solderability 焊錫附著性 (Connector excepted) (端子類不適用此項)	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm 5$ for 3 ± 0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入 $+270\pm 5$ 溶融焊錫槽 3 ± 0.5 秒.	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊錫 90% 以上.(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 雙線材水平方向施以 3.0N(0.306kg)的力量, 垂直方向施以 2.0N(0.204kg) 的力量,各 30 秒.	No damage and cutting off 線材不鬆動, 不脫落.
3	Vibration Test 振動測試	Speaker shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours. 振動週波數 10 ~ 55Hz、全振幅 1.5mm 於 X.Y.Z 3 個方向, 各 2 小時.	No obstacle to be harmful to normal operation; damages, cracks, rusts and distortions. Should not be audible at 2.83V sine wave between $F_o \sim 20\text{KHz}$
4	Drop Test 落下測試	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm 將揚聲器置於盒中, 自 75 公分高度落在 40mm 木板上共 10 次.	測試後無任何障礙防礙正常操作.且在輸入 2.83V 正弦波從 F_o 到 20KHz 之間無異常音.

G. ENVIRONMENTAL TEST 環境試驗

No.	Item	Test conditions	Evaluation standard
1	High temp. Test 高溫測試	After being placed in a chamber at $+55$ for 96 hours 置於 $+55$ 環境中 96 小時	Being placed for 6 hours at $+25$, speaker shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 2.83V sine wave between $F_o \sim 10\text{KHz}$. F_o should meet initial one. S.P.L. deviation of unit should be within $\pm 3\text{dB}$ 經測試後, 靜置於 $+25$ (室溫)環境中 6 小時後, 測試後無任何障礙防礙正常操作.且在輸入 2.83V 正弦波從 F_o 到 10KHz 之間無異常音. F_o 與原規格值相同輸出音壓變化量在 $\pm 3\text{dB}$ 內
2	Low temp. Test 低溫測試	After being placed in a chamber at -20 for 96 hours. 置於 -20 環境中 96 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at $+40$ and $90\pm 5\%$ RH relative humidity for 96 hours. 置於 $+40$, 相對濕度 $90\pm 5\%$ 環境中 96 小時	
4	Temp. cycle test 溫度循環測試	The part shall be subjected to 5 cycles. One cycle shall be consist of: 單體承受溫度循環測試 5 次, 其循環內容如圖示: 	


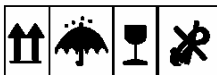
H. RELIABILITY TEST 信賴性試驗

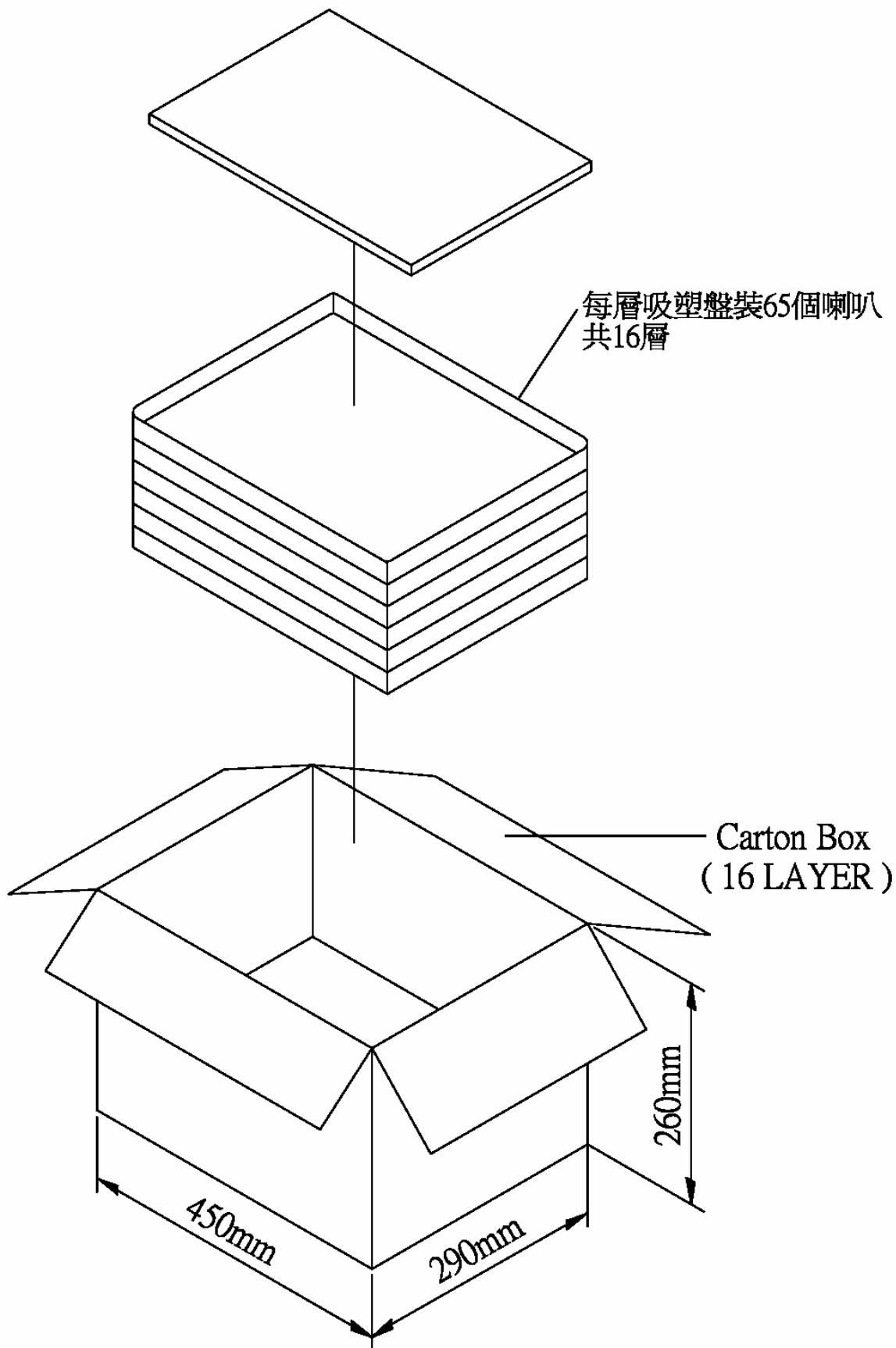
No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	1.0W white noise is applied for 96 hours, at room temp. 在室溫下,輸入功率 1.0W, 白雜音連續操作 96 小時.	Being placed for 1 hours at +25 , speaker shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 2.83V sine wave between Fo ~10KHz. Fo should meet initial one. S.P.L. deviation of unit should be within $\pm 3\text{dB}$ 經測試後,靜置於+25 (室溫)環境中 1 小時後,測試後無任何障礙防礙正常操作. 且在輸入 2.83V 正弦波從 Fo 到 10KHz 之間無異常音. Fo 與原規格值相同 輸出音壓變化量在 $\pm 3\text{dB}$ 內.

TEST CONDITION.

Standard Test Condition :	a) Temperature : +5 ~ +35	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般測試條件 :	a) 溫度 : +5 ~ +35	b) 濕度 : 45-85%	c) 氣壓 : 860-1060mbar
Judgement Test Condition	a) Temperature : +25 \pm 2	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
爭議時測試條件:	a) 溫度 : +25 \pm 2	b) 濕度 : 60-70%	c) 氣壓 : 860-1060mbar

I.PACKING STANDARD 包裝規格

KSD	 <table border="1"> <tr><td>Type</td><td></td></tr> <tr><td>Specification</td><td></td></tr> <tr><td>Quantity</td><td></td></tr> <tr><td>Number</td><td></td></tr> <tr><td>Weight</td><td></td></tr> </table>	Type		Specification		Quantity		Number		Weight		KSD	 <table border="1"> <tr><td>Type</td><td></td></tr> <tr><td>Specification</td><td></td></tr> <tr><td>Quantity</td><td></td></tr> <tr><td>Number</td><td></td></tr> <tr><td>Weight</td><td></td></tr> </table>	Type		Specification		Quantity		Number		Weight	
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Carton Box	450mmx290mmx260mm	65PCSx16=1040PCS
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