

SPECIFICATION FOR APPROVAL

承 認 書

Description : **SPEAKER**

Kingstate Part No. : **KDMG4040008-30**

Customer's Model No. :

Specification No. : **PKD-8726**

Number Of The Edition : **1.1**

CUSTOMER'S APPROVED SIGNATURE		



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Approved by	Checked by	Issued by

A. SCOPE 範疇

This specification applies speaker, **KDMG4040008-30**

此規格書適用於喇叭, **KDMG4040008-30**

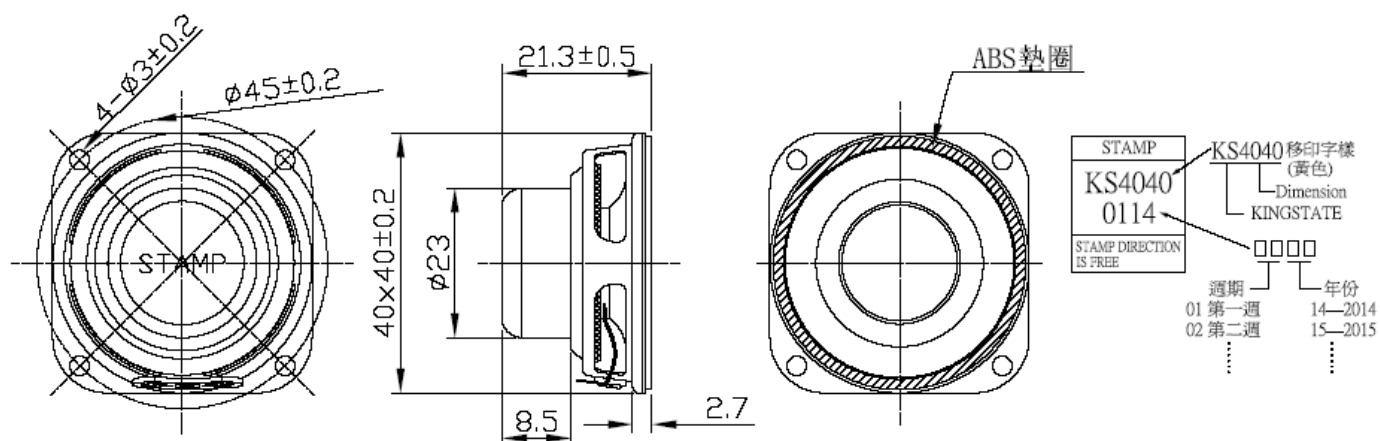
B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	40 x 40 x 21.3H	Refer to attached drawing in details
2	Max. Input Power 最大輸入功率		W	Rated: 3 / Max: 5	Maximum Power:IEC-50268-5 Filter 50s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance 阻抗	Ω	ohm	$8 \pm 20\%$	At 1.0KHz, 1.0V
4	Resonance Frequency 低音諧振	Fo	Hz	$220 \pm 20\%$	At 1.0V
5	S.P.L. 音壓位準		dB	101 9 3dB(1w/10cm)	At 400,600,800,1000Hz (Average figures)
6	Frequency Range 有效頻寬		Hz	F0---20K	Output S.P.L. ± 10 dB
7	Distortion 失真		%	5% Max	At 1.0KHz 1.0W
8	Operating temp. 操作溫度		℃	-20~+70	
9	Buzze & Rattle 異常音				Not be audible at 4.89V sine wave between F0 ~ 20KHz 輸入 4.89V 正弦波從 F0 到 20KHz 之間無異常音
10	Weight 重量		g	32	
11	Material 材質			Metal	
12	Environmental Protection Regulation 環保法規			RoHS 2.0	

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



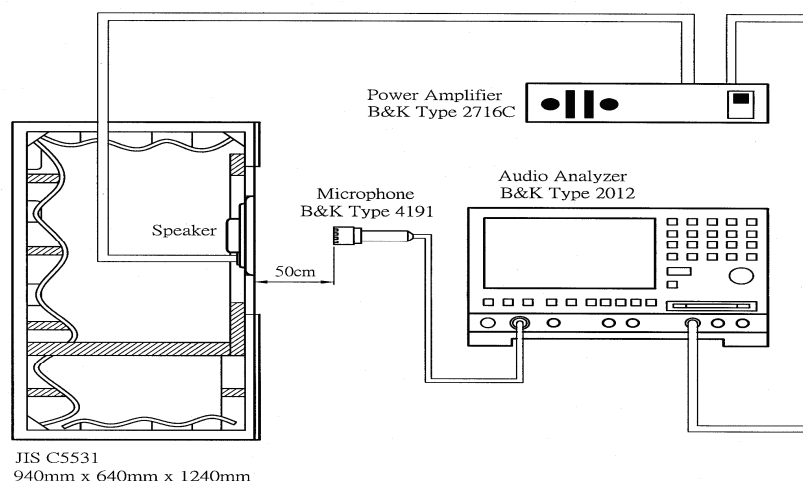
D. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.3

Unit: mm

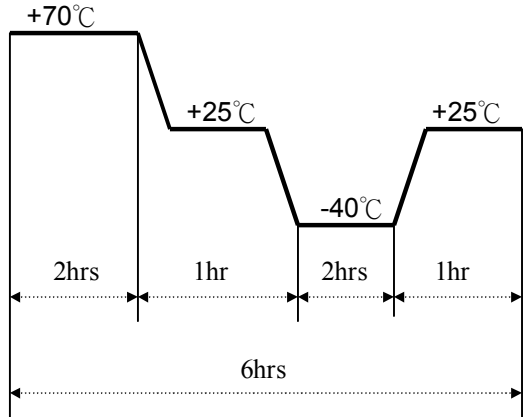
E. MEASUREMENT METHOD 測量路線



F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test conditions	Evaluation standard
1	PCB Wire Pull Strength PCB 線材拉力	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. 雙線材水平方向施以 3.0N(0.306kg)的力量,30 秒.	No damage and cutting off. 不鬆動,不脫落.
2	Vibration test 振動測試	Receiver 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 4.89V sine wave between F0 ~ 20KHz 測試後無任何障礙防礙正常操作. 且在輸入 4.89V 正弦波從 F0 到 20KHz 之間無異常音.
3	Drop test 落下測試	Drop the receiver contained in normal box onto the board 40mm thick 10 times from the height of 75cm 將受話器置於盒中,自 75 公分高度落在 40mm 木板上共 10 次.	

G. ENVIRONMENT TEST 環境測試

No.	Item	Test conditions	Evaluation standard
1	High temp. Test 高溫測試	After being placed in a chamber at +70°C for 96hours 置於+70°C 環境 96 小時	Being placed for 6 hours at +25°C, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 4.89V, sine wave between F0 ~20KHz. S.P.L. deviation of unit should be within ±3dB 經測試後,靜置於+25°C (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 4.89V 正弦波從 F0 到 20KHz 之間無異常音.輸出音壓變化量在±3dB 內.
2	Low temp. Test 低溫測試	After being placed in a chamber at -40°C for 96 hours. 置於-40°C 環境中 96 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at +40°C and 95±5%RH relative humidity for 96 hours. 置於+40°C, 相對濕度 95±5%環境中 96 小時.	
4	Thermal cycle test 溫度循環測試	The part shall be subjected to 6 cycles. One cycle shall be consist of : 單體承受溫度循環測 6 次,其循環內容如圖示: 	

H. Recommended Temperature Profile For Hand Soldering 建議手焊溫度

Hand Soldering
370±10°C / 3±1 Sec

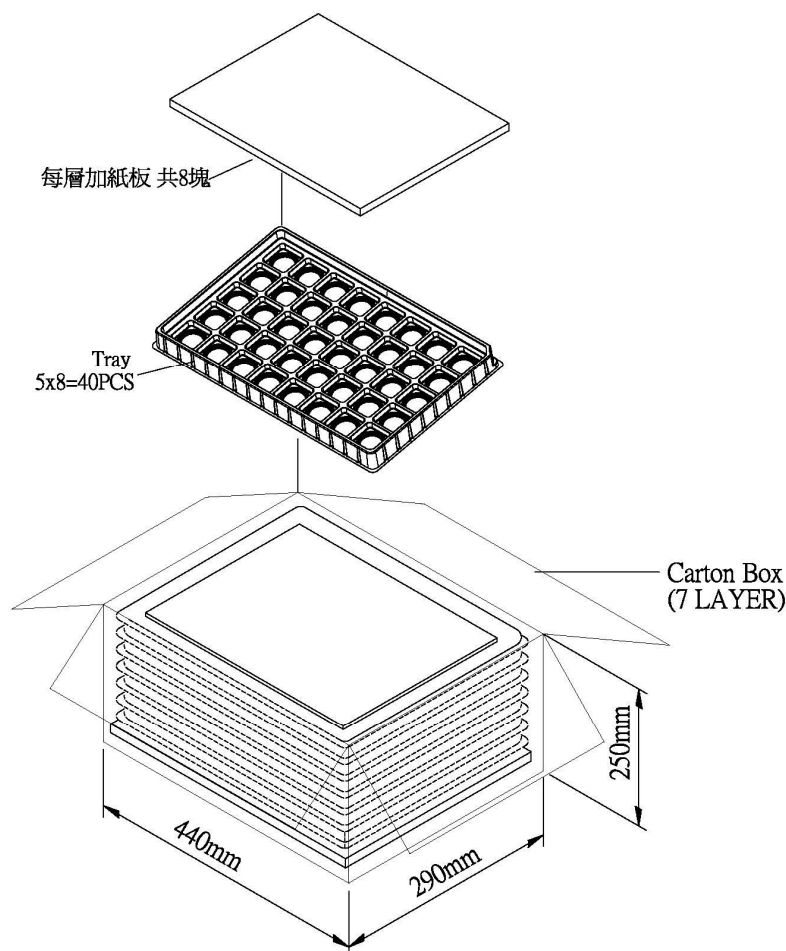
I. RELIABILITY TEST 信賴性測試

No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	3W, Frequency 170Hz-20KHz, Pink noise is applied for 24 hours, at room temp. 在室溫下,輸入功率 3W,頻率範圍 170Hz-20KHz,粉雜音連續操作 24 小時.	Being placed for 1 hours at +25°C, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 4.89V sine wave between F0 ~20KHz. S.P.L. deviation of unit should be within ±3dB 經測試後,靜置於+25°C (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 4.89V 正弦波從 F0 到 20KHz 之間無異常音.輸出音壓變化量在±3dB 內.

TEST CONDITION.

Standard Test Condition	: a) Temperature : +5 ~ +35°C	b) Humidity : 45-85%	c) Pressure : 850-1050mbar
一般測試條件	: a) 溫度 : +5 ~ +35°C	b) 濕度 : 45-85%	c) 氣壓 : 850-1050mbar
Judgement Test Condition	: a) Temperature : +25 ± 2°C	b) Humidity : 50-70%	c) Pressure : 850-1050mbar
爭議時測試條件	: a) 溫度 : +25 ± 2°C	b) 濕度 : 50-70%	c) 氣壓 : 850-1050mbar

J. PACKING STANDARD 包裝規格



Paper Plate	420mmx270mmx30mm	1x40PCS=40PCS
Carton Box	440mmx290mmx250mm	40PCSx7=280PCS