

# SPECIFICATION FOR APPROVAL

## 承 認 書

Description : Micro Dynamic Speaker  
Kingstate Part No. : KDMG40008  
Customer's Model No. : \_\_\_\_\_  
Specification No. : PKD-7299  
Number Of The Edition : 1.2

CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by
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## A. SCOPE 範疇

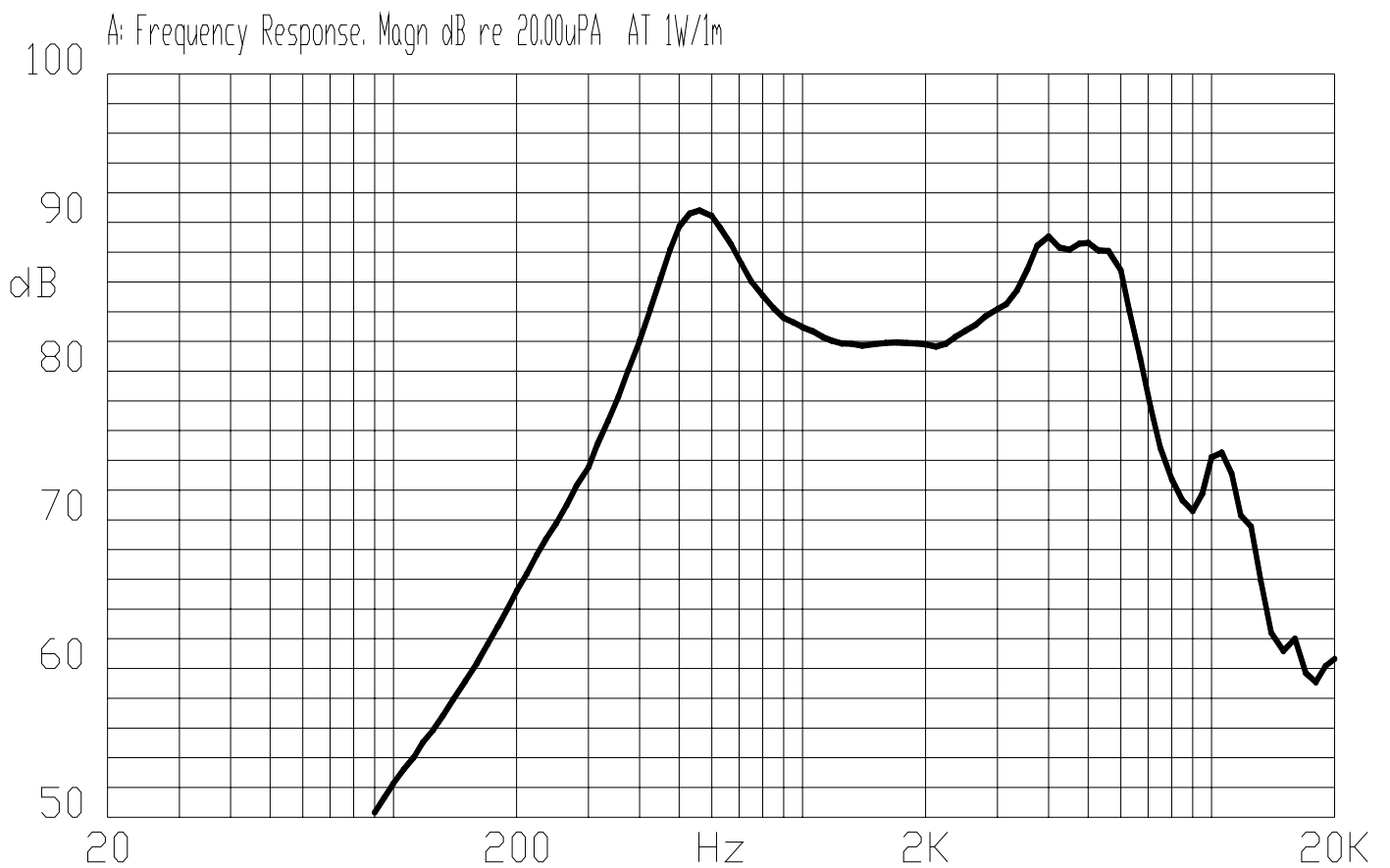
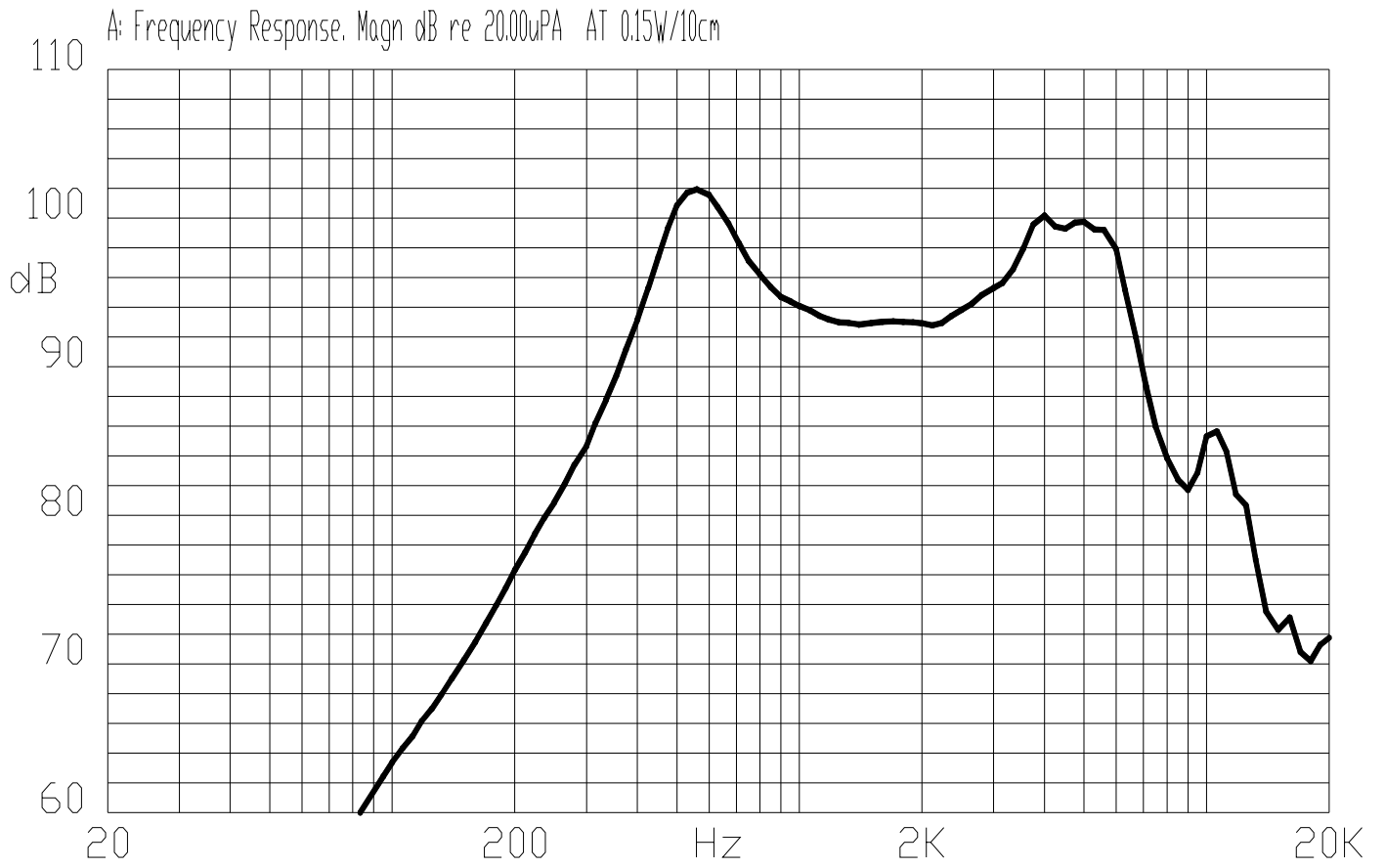
This specification applies speaker, **KDMG40008**

此規格書適用於喇叭, **KDMG40008**

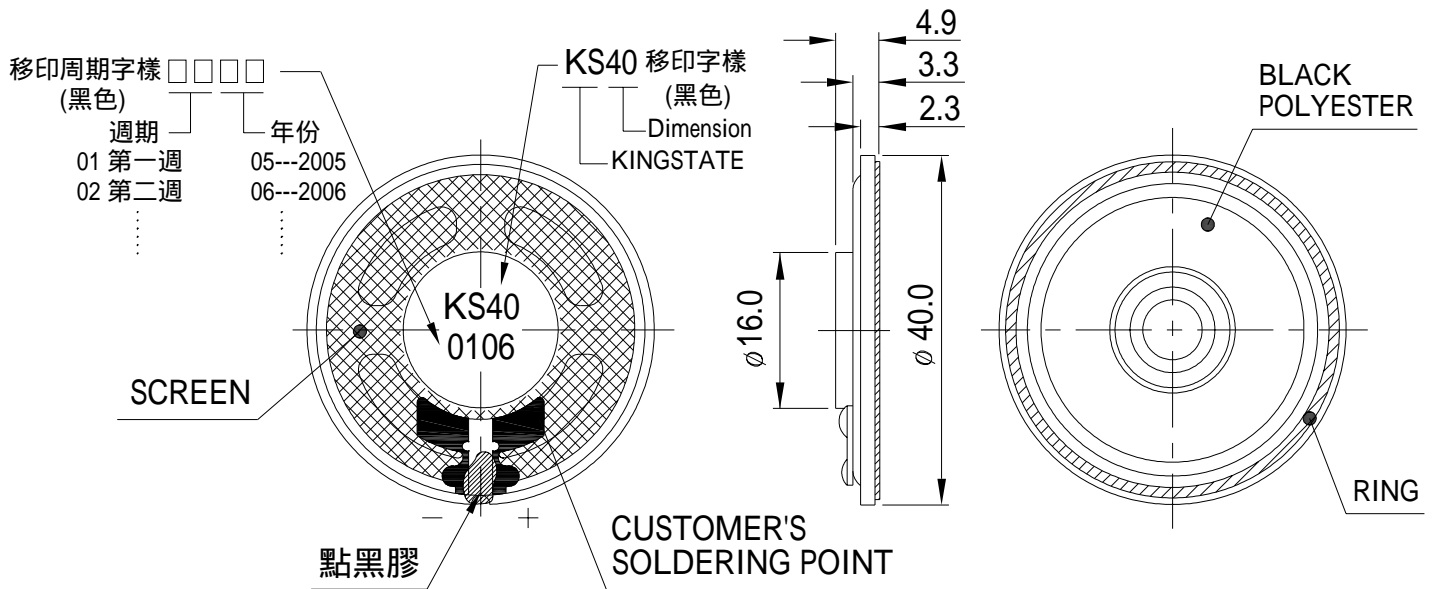
## B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	40.0 x 4.9	
2	Power Rating 功率		W	Rated. 0.15/ MAX. 0.3	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance 阻抗		ohm	$8 \pm 15\%$	At 1.0Hz 1.0V
4	Resonance Frequency 低音諧振	Fo	Hz	$530 \pm 20\%$	At 1.0V
5	Output S.P.L. 音壓位準		dB	$92 \pm 3\text{dB}(0.15\text{w}/10\text{cm})$ $81 \pm 3\text{dB}(1\text{w}/1\text{m})$	At 1.0k,1.2k,1.5k,2.0kHz (Average figures)
6	Frequency Range 有效頻寬		Hz	Fo---7KHz	Output S.P.L. $\pm 10\text{dB}$
7	Distortion 失真		%	10% Max.	At 1.0kHz , 0.15W
8	Voice Coil 音圈		mm		
9	Magnet 磁石		mm	12.5 x 1.5	Nd-Fe-B (鈹鐵錳)
10	Flux Density 磁通密度		Gauss		Min.
11	Operating temp. 操作溫度			-20 ~ +60	
12	Buzzer & Rattle 異常音				Not be audible at 1.1V sine wave between Fo ~ 7KHz 輸入 1.1V 正弦波從 Fo 到 7KHz 之間無異常音
13	Weight 重量		g	10.3	
14	Material 材質			Metal	
15	Environmental Protection Regulation 環保法規			RoHS	

### C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

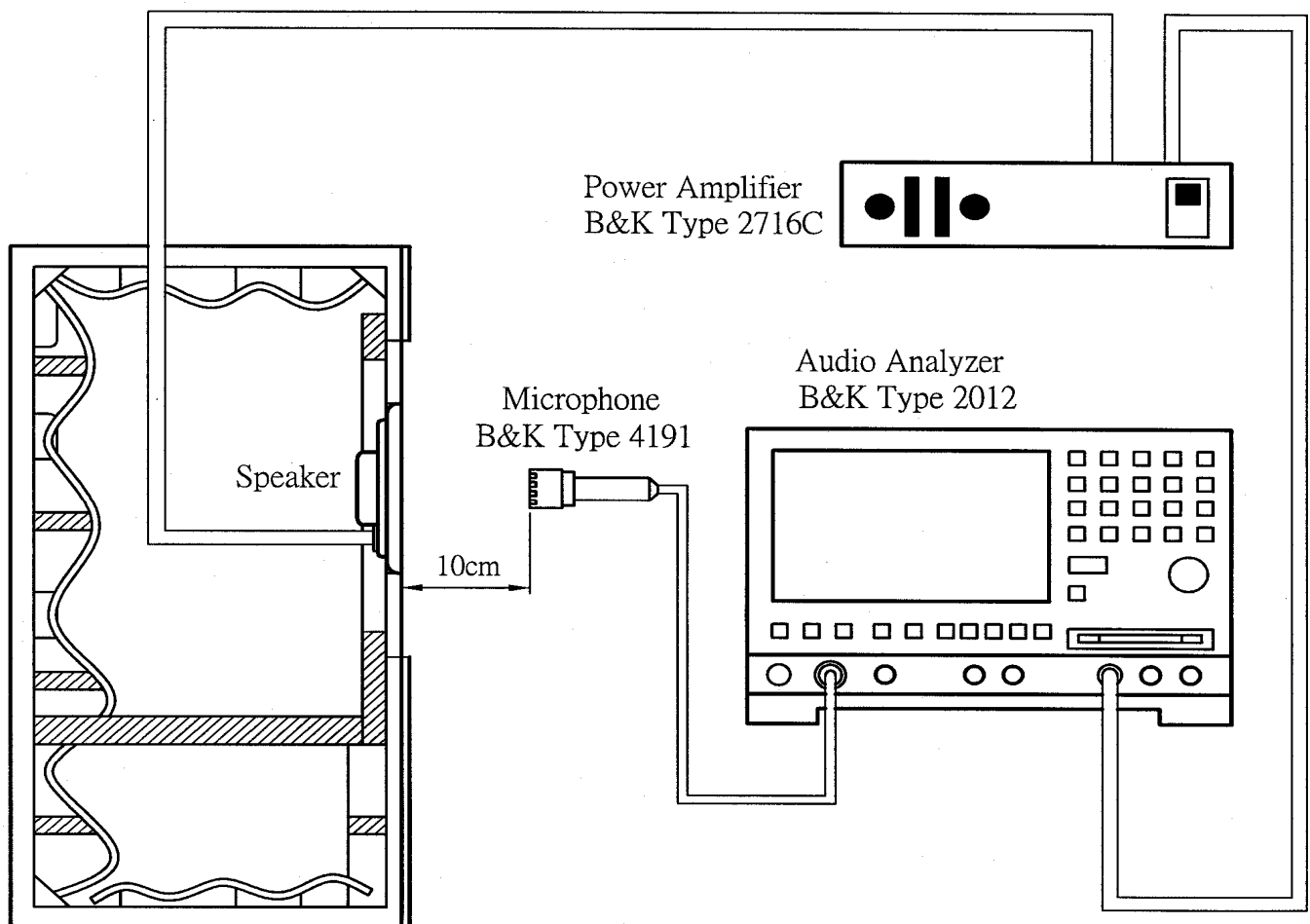


# D. APPEARANCE DRAWING 外觀尺寸圖



Tol:  $\pm 0.5$   
Unit: mm

# E. MEASUREMENT CIRCUIT 測量線路

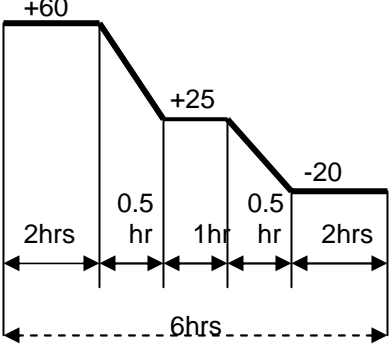


JIS C5531  
940mm x 640mm x 1240mm

## F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	Evaluation standard
1	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. 線材不鬆動,不脫落.
2	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
3	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.	At 1.1V sine wave between Fo ~ 7KHz 測試後無任何障礙防礙正常操作.且在輸入 1.1V 正弦波從 Fo 到 7KHz 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 +60 for 96 hours 置於+60 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 1.1V sine wave between Fo ~ 7KHz. 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 6 小時後, 測試後無任何障礙防礙正常操作.且在輸入 1.1V 正弦波從 Fo 到 7KHz 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
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. Recommended Temperature Profile For Hand Soldering 建議手焊溫度

Hand Soldering
370 $\pm 10$ / 3 $\pm 1$ Sec

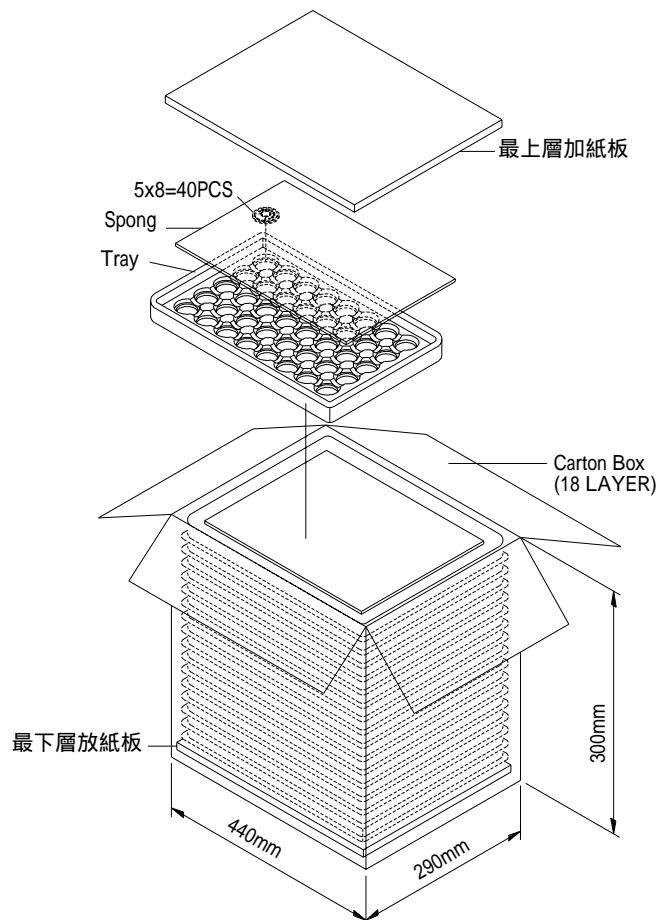
# I. RELIABILITY TEST 信賴性試驗

No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	0.15W white noise is applied for 24 hours, at room temp. 在室溫下,輸入功率 0.15W, 白雜音連續操作 24 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 1.1V sine wave between Fo ~7KHz. Fo should meet initial one. S.P.L. deviation of unit should be within ±3dB. 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 1.1V 正弦波從 Fo 到 7KHz 之間無異常音.Fo 與原規格值相同, 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 : 860-1060mbar
一般測試條件 :	a) 溫度 : +5 ~ +35°C	b) 濕度 : 45-85%	c) 氣壓 : 860-1060mbar
Judgement Test Condition	a) Temperature : +25 ± 2°C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
爭議時測試條件 :	a) 溫度 : +25 ± 2°C	b) 濕度 : 60-70%	c) 氣壓 : 860-1060mbar

## J. PACKING STANDARD 包裝規格



Tray	420mmx270mmx22mm	1x40PCS=40PCS
Carton Box	440mmx290mmx300mm	40PCSx18=720PCS

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