SPECIFICATION FOR APPROVAL

承 認 書

Description : Micro Dynamic Speaker

Kingstate Part No. : KDMG20008

Customer's Model No.:

Specification No. : PKD-7269

Number Of The Edition: 1.2

CUSTOMER'S APPROVED SIGNATURE			

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP.



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Approved by	ր Checked by	Issued by
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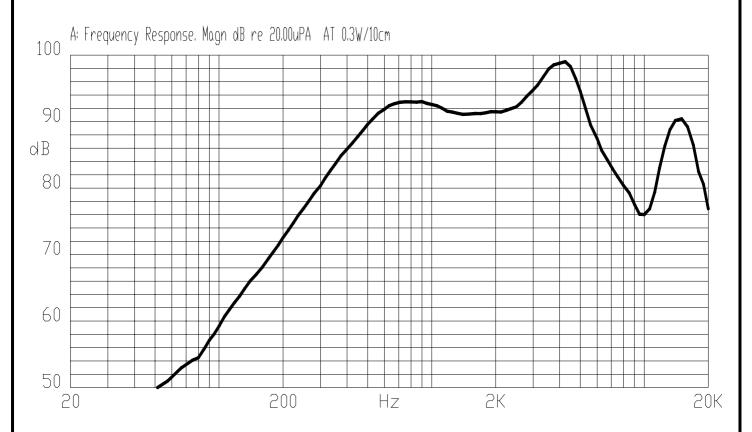
A. SCOPE 範疇

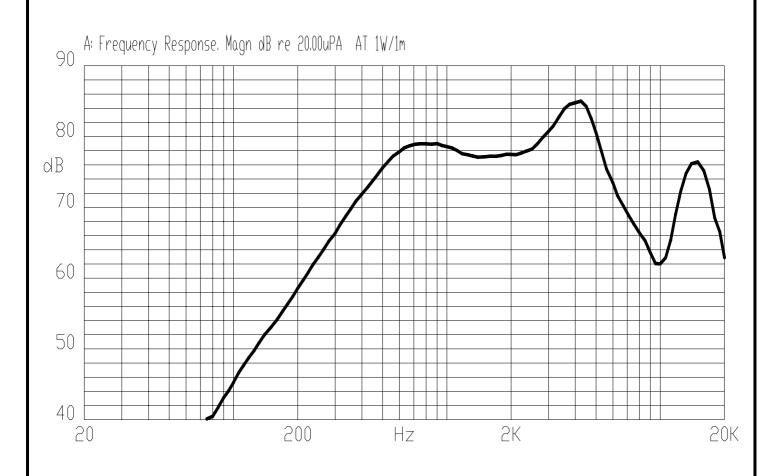
This specification applies speaker, **KDMG20008** 此規格書適用於喇叭,**KDMG20008**

B. SPECIFICATION 規格

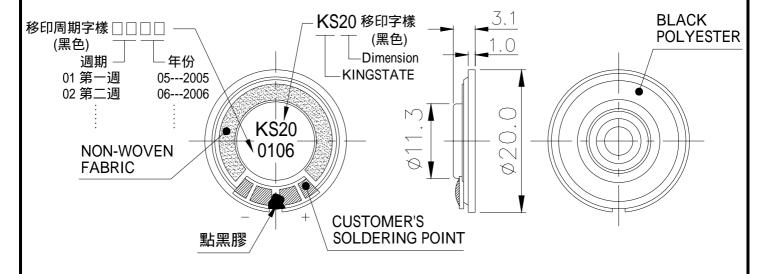
No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	20.0 x 3.1	
2	Power Rating 功率		W	Rated. 0.3 / MAX. 0.5	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance 阻抗		ohm	8 ± 15%	At 1.0kHz 1.0V
4	Resonance Frequency 低音諧振	Fo	Hz	560 ± 20%	At 1.0V
5	Output S.P.L. 音壓位準		dB	92 ± 3 dB(0.3w/10cm) 78 ± 3 dB(1w/1m)	At 1.0k,1.2k,1.5k,2.0kHz (Average figures)
6	Frequency Rang 有效頻寬		Hz	Fo7K	Output S.P.L. ±10dB
7	Distortion 失真		%	5% Max.	At 1.0kHz , 0.3W
8	Voice Coil 音圈		mm	8.7x 0.055 x H1.3 x 8	
9	Magnet 磁石		mm	8.0 x 1.0	Nd-Fe-B(銣鐵錋)
10	Flux Density 磁通密度		Gauss	4800 ± 10%	Min.
11	Operating temp. 操作温度			- 20 ~ +55	
12	Buzze & Rattle 異常音				Not be audible at 1.54V sine wave between Fo ~ 7KHz 輸入 1.54V 正弦波從 Fo 到 7KHz 之間無異常音
13	Weight 重量		g	2.3	
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



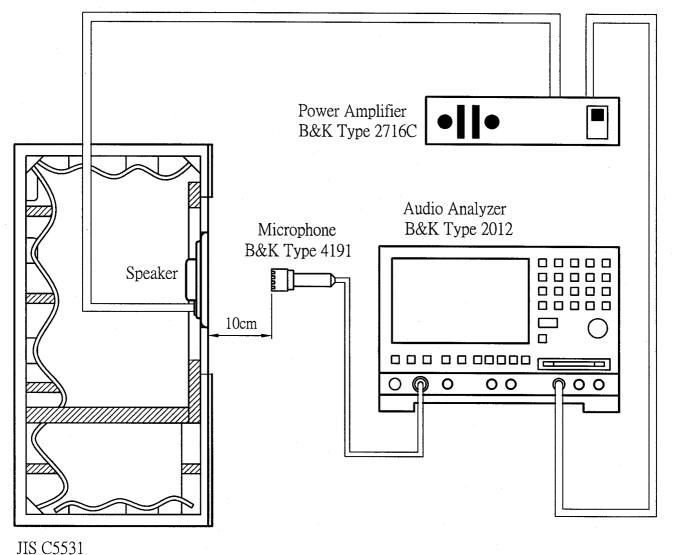


D. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

E. MEASUREMENT CIRCUIT 測量線路



940mm x 640mm x 1240mm

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 4/6 KDMG20008

F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	Evaluation standard
1		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	VIDIATION TEST	動測試 frequency to each of 3 perpendicular 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	to normal operation; damages, cracks, rusts and distortions. Should not be audible at 1.54V sine wave between
3	落 下油餅	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.	

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	
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	Being placed for 6 hours at +25 , speaker shall be
3	Humidity test 相對濕度測試	After being placed in a chamber at +40 and 90±5% RH relative humidity for 96 hours. 置於+40 ,相對濕度 90±5%環境中 96 小時	measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 1.54V 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 6 小時後,測試後無任何障礙防礙正常操作.且在輸入 1.54V 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.
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: +55 -20 2hrs hr hr hr 2hrs 6hrs	

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

Hand Soldering		
370±10	/ 3±1 Sec	

I. RELIABILITY TEST 信賴性試驗

No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	0.3W white noise is applied for 24 hours, at room temp. 在室溫下,輸入功率 0.3W, 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 1.54V 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1.54V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

一般測試條件 : a) 溫度:+5~+35 Judgement Test Condition a) Temperature:+25 ± 2

爭議時測試條件: a) 温度:+25±2

b) Humidity: 60-70% c) Pressure: 860-1060mbar

b) Humidity: 45-85% c) Pressure: 860-1060mbar

b) 濕度:45-85% c) 氣壓:860-1060mbar

b) 濕度:60-70% c) 氣壓:860-1060mbar

J. PACKING STANDARD 包裝規格

