

SPECIFICATION FOR APPROVAL

承 認 書

Description : Micro Dynamic Box

Kingstate Part No. : KDMG36008C-BOXA

Customer's Model No. : _____

Specification No. : POD-5419

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE		

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

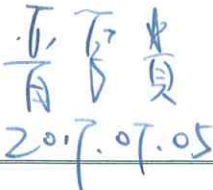



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Approved by	Checked by	Issued by
 2017.07.05	 7/5/17	Sawen 07/05/17

A. SCOPE 範疇

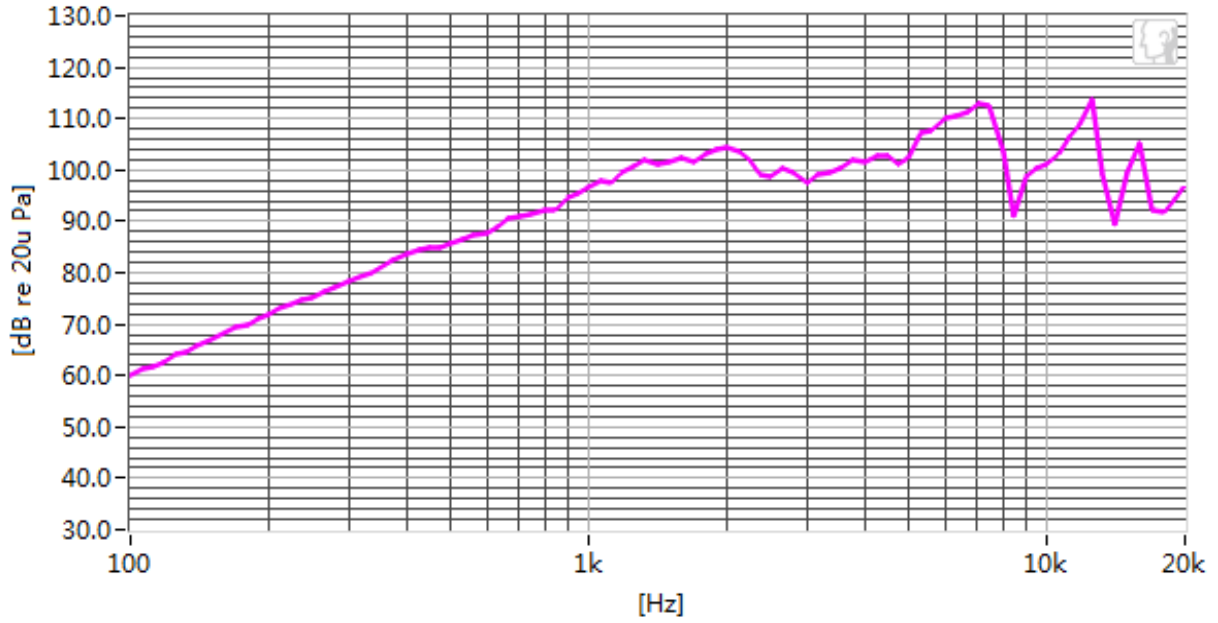
This specification applies box, **KDMG36008C-BOXA**

此規格書適用於音箱, **KDMG36008C-BOXA**

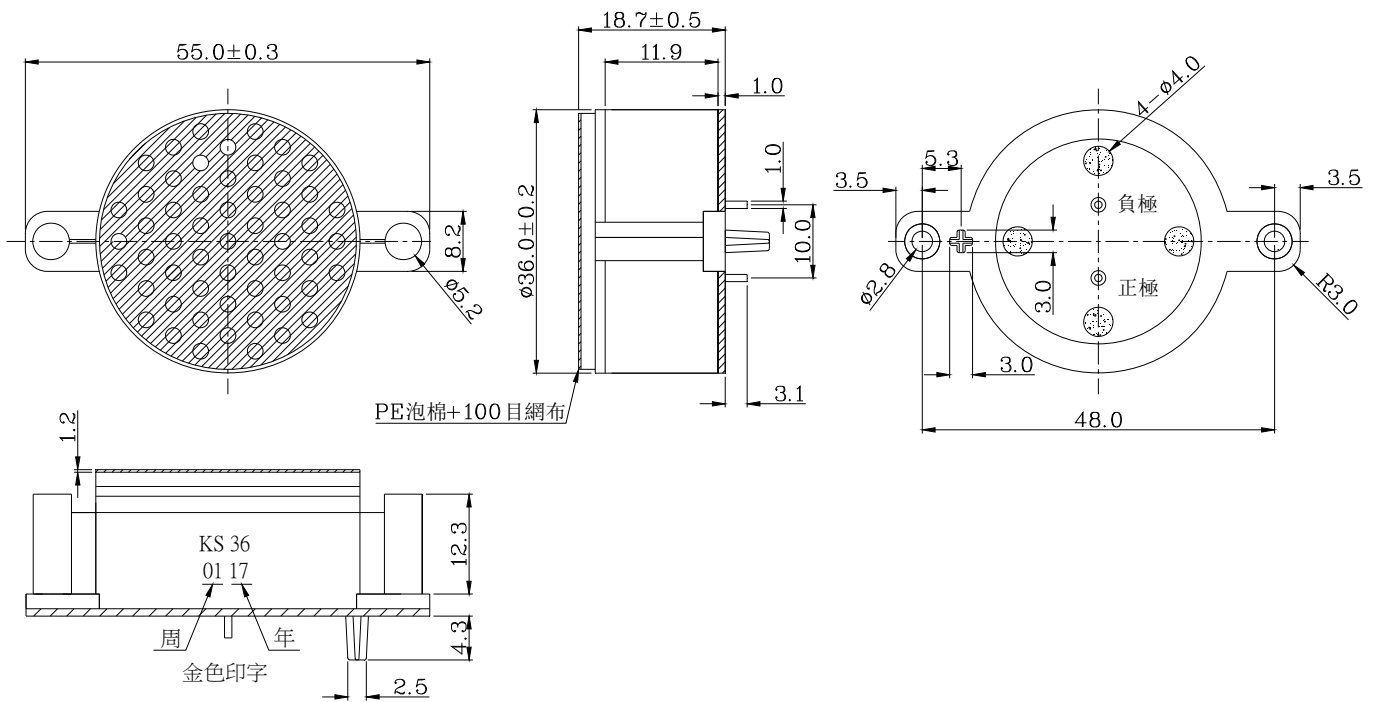
B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	$\Phi 36.0 \times 18.7$	
2	Power Rating 功率		W	Rated.1.5/ Max 2.0	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance 阻抗	Ω	ohm	$8 \pm 15\%$	At 2.0KHz、1V
4	Resonance Frequency 低音諧振	Fo	Hz	$400 \pm 20\%$ Hz	At 1V
5	Output S.P.L. 音壓位準		dB	97 ± 3 dB(1W/10cm)	at AVE 0.8K 1.0K 1.2K 1.5K Hz in average (0dB SPL=20 μ Pa)
6	Frequency Range 有效頻寬		Hz	Fo~20K	Output S.P.L. -10dB
7	Distortion 失真		%	10% Max	1KHz, 1W
8	Diaphragm 振膜		mm	N/A	PEI
9	Magnet 磁石		mm	N/A	Nd-Fe-B (鈹鐵錳)
10	Flux Density 磁通密度		Gauss	N/A	
11	Operating temp. 操作溫度		$^{\circ}$ C	-40 ~ +85	
12	Storage temp. 存儲溫度		$^{\circ}$ C	-40 ~ +85	
13	Buzzer & Rattle 異常音				Not be audible at 3.4V sine wave between Fo ~ 20KHz 輸入 3.4V 正弦波從 Fo 到 20KHz 之間無異常音
14	Weight 重量		g	About15	
15	Material 材質			ABS 777D	
16	Polarity 極性			Diaphragm shall move Forward when Apply a Positive DC. Current to the "+"	
17	Environmental Protection Regulation 環保法規			HSF	

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



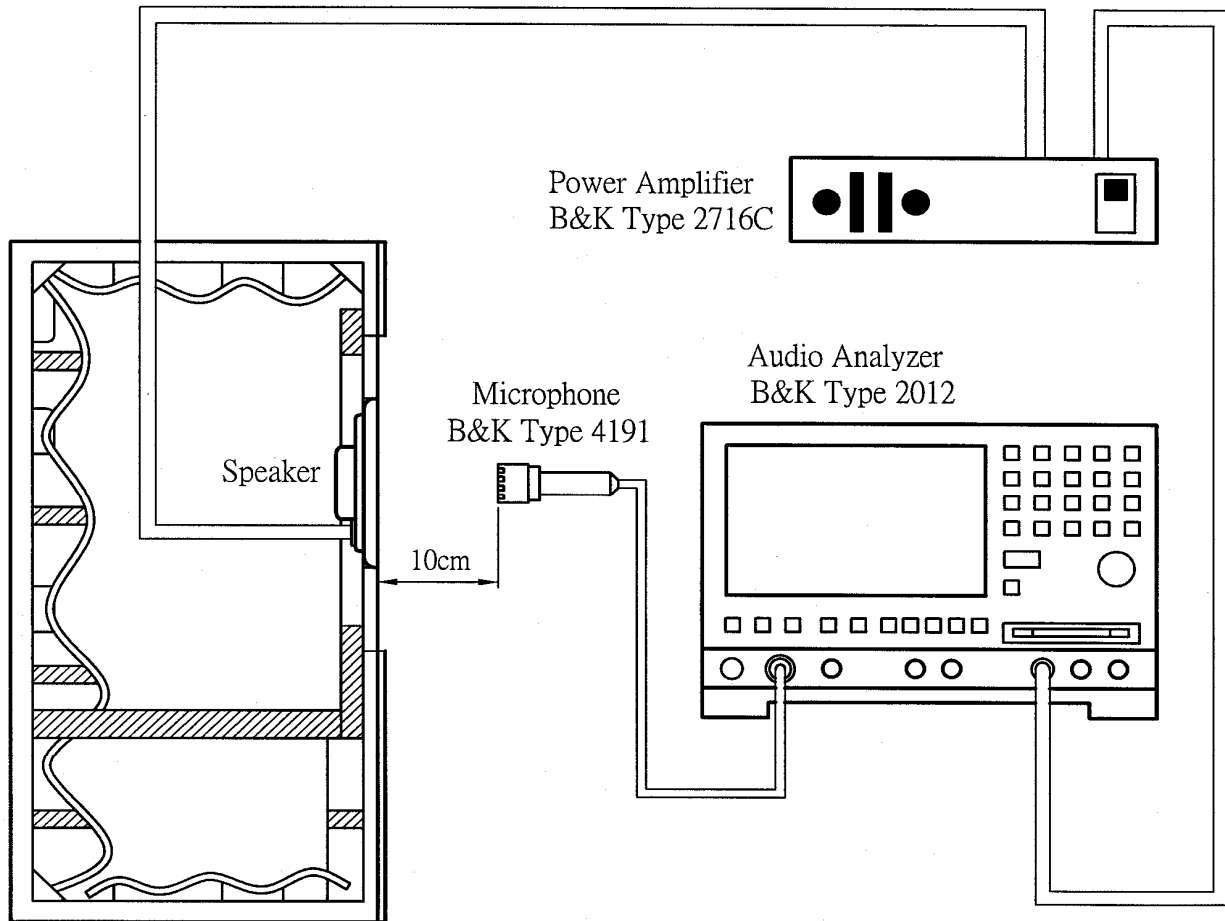
D. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.25

Unit: mm

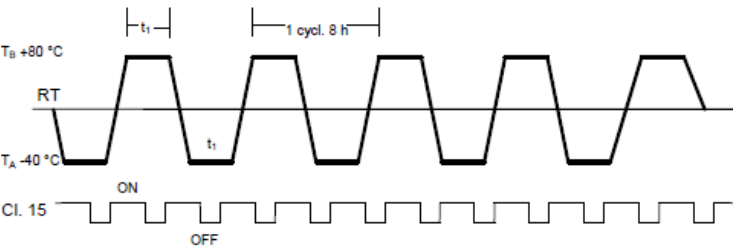
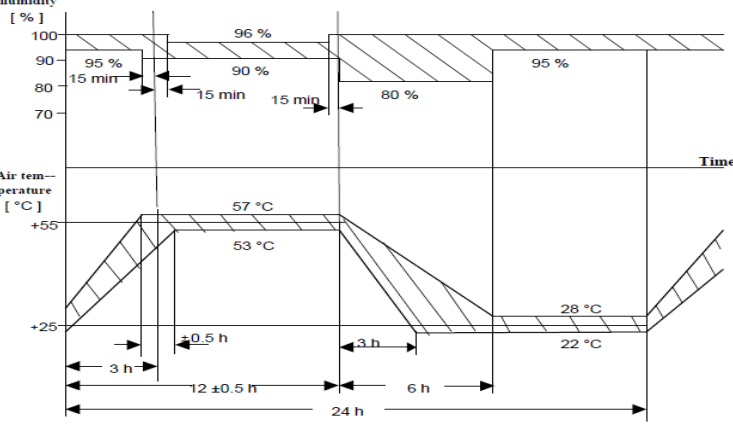
E. MEASUREMENT CIRCUIT 測量線路



JIS C5531
940mm x 640mm x 1240mm

F. RELIABILITY TEST 信賴性試驗

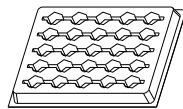
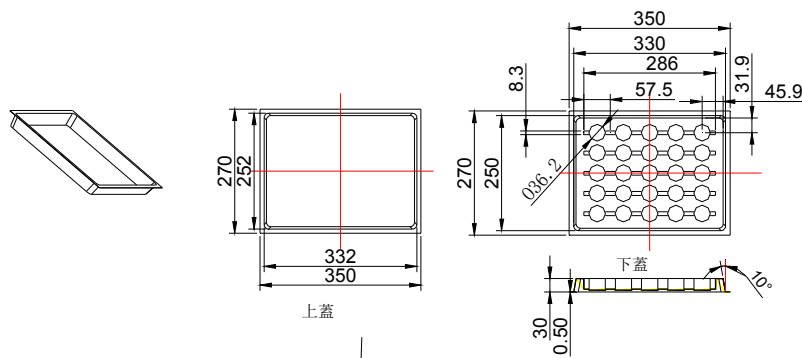
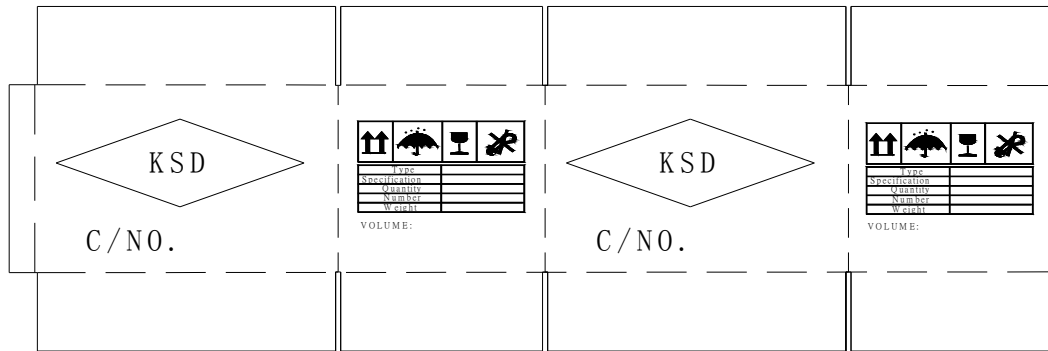
No.	Item	Test condition	Evaluation standard
1	High temp. preservation 高溫保存測試	Exposure to 85°C for 96 hours. 在 85°C 環境下放置時間 96 小時。	Being placed for 24 hours at +25°C, speaker shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 3.4V sine wave between Fo ~ 20KHz. Fo should meet initial one. S.P.L. deviation of unit should be within 3dB 經測試後，靜置於+25°C (室溫) 環境中 24 小時後，測試後無任何障礙防礙正常操作。且在輸入 3.4V 正弦波從 Fo 到 20KHz 之間無異常音。Fo 與原規格值相同輸出音壓變化量在 3dB 內
2	Low temp. preservation 低溫保存測試	Exposure to -40°C for 96 hours. 在 -40°C 環境下放置時間 96 小時。	
3	High and Low temp. preservation 高低溫保存測試	<p>$t_1=48h, t_2=48h, t_3=1h,$ $T_A=-40^\circ C, T_B=+85^\circ C, T_C=+90^\circ C, 1^\circ C/min$</p>	
4	Thermal Shock 熱衝擊測試	<p>$t_1=2h, t_2<10s, TA=-40^\circ C, TB=+85^\circ C,$ 測試 100 個周期</p>	

5	Temp. cycle test 溫度循環測試	 <p>$t_1=2.5h, 1.5^{\circ}C/min,$ $T_A=-40^{\circ}C, T_B=+80^{\circ}C,$ 測試 20 周期, Cl.15 ON=2.5h, Cl.15 Off=0.5h, Cl.30 保持 on</p>	
6	Humidity test 相對濕度測試	 <p>1 週期=24h, 測試 6 週期</p>	
7	Ordinary Temp life 常溫壽命測試	1.5W white noise is applied for 96 hours, at room temp. 在室溫下,輸入功率 1.5W, 白雜音連續操作 96 小時.	
8	Vibration Test 振動測試	5-1000Hz Sinewave, Sweep 15min, 49m/s ² (const) X、Y、Z 3Direction 2 hours each, Total 6hours。 5-1000Hz, 正弦波工作 15 分鐘, 49m/s ² (一定) X、Y、Z 3 個方向 各 2 小時, 共計 6 小時。	
9	Solder Heat Resistance 端子焊錫耐熱性測試	Solder temperature: 350±10°C Soaking time: 3.5±0.5sec 焊錫溶解溫度: 350±10°C 浸漬時間: 3.5±0.5 秒	
10	Free drop Test 自由跌落測試	Free drop on concrete 100cm height.X.Y.Z every surface x 1 times, Total 3times. 自由落下, 自 100cm 高度落在地面上, X.Y.Z 各方向 1 回 計 3 回落下	
11	Solderability 端子焊接性測試	40°C, 90~95%RH 條件下放置 240 小時後, 焊錫槽溶錫溫度: 265±5°C 焊錫浸漬時間: 2±0.5sec Pretreatment: 40°C, 90~95%RH x 240hours Soldering into solderbath: Solder Temp. 265±5°C Soaking Time 2±0.5sec	95% surface of leade pins must be covered with fresh solder and no soldering holnesshould be found. Pin95%表面要沾錫, 不可假 焊.
12	Terminal strength 端子拉力強度	Pulled in the direction along the pin axis. 22.2N, 沿著端子方向進行負荷測試	No damage and cutting off. 不鬆動, 不脫落.
13	Salt spray test 鹽霧試驗	Place the loudspeakers separately inside the salt spraying tester. Spray continuous salt mist with concentration of 5% NaCl solution into the test chamber under temperature 35°C for 24 hours. After finishing the test, wash samples with flowing warm water whose temperature isn't more than 35°C to remove the residual salt spray solution on the surface of samples. 測試時揚声器之間獨立擺放於鹽霧試驗機內; 使用鹽霧濃度為 5% 的 NaCl 溶液連續呈霧狀噴入試驗箱中, 溫度 35°C, 持續 24 小時; 試驗結束後, 用不高于 35°C 的流動溫水清洗樣品以除去樣品表面 殘留的鹽霧溶液;	After test, there shouldn't be damage of appearance with samples such as corrosion, discoloration and coating peeling. 試驗後, 樣品無外觀損壞, 如 銹蝕, 變色, 及鍍層剝落等現 象.

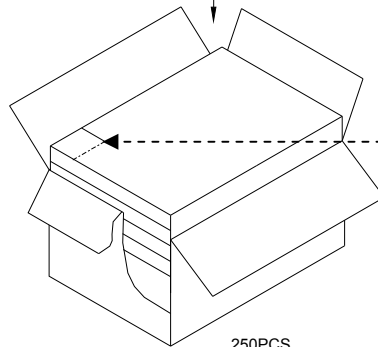
TEST CONDITION.

Standard Test Condition : a) Temperature : +15 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar
 一般測試條件 : a) 溫度 : +15 ~ +35°C b) 濕度 : 45-85% c) 氣壓 : 860-1060mbar
 Judgment Test Condition a) Temperature : +20 ± 3°C b) Humidity : 60-70% c) Pressure : 860-1060mbar
 爭議時測試條件: a) 溫度 : +20 ± 3°C b) 濕度 : 60-70% c) 氣壓 : 860-1060mbar

G PACKING 包裝

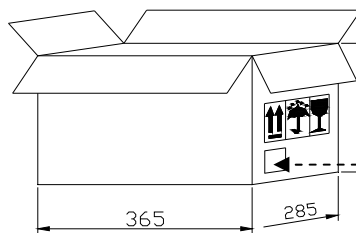


25PCS per tray





10 trays for unit
one unit per package

250PCS



1 unit for carton

Lot No.	XXXXXXXXXX
Model No.	KDMG36008C-BOXA
Quantity.	XXXX Pcs
Date:	DD MM YY
	
 KINGSTATE ELECTRONICS CORP.	

注：膠帶不能直接貼在包盤上，可貼在 PE 袋上固定包盤。

Tray	350mm*270mm	25pcs
Unit	350mm*270mm	25*10=250pcs
Carton Box	365mm*285mm*285mm	1*250=250pcs