

# SPECIFICATION FOR APPROVAL

## 承 認 書

Description : Magnetic Buzzer

Kingstate Part No. : KXG1205CL

Customer's Model No. : \_\_\_\_\_

Specification No. : TKS-7083

Number Of The Edition : 1.3

CUSTOMER'S APPROVED SIGNATURE		

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


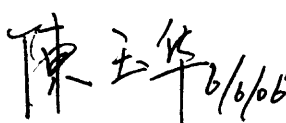


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Approved by	Checked by	Issued by
 6/6/06'	 6/6/06'	Qin 06/05/06'

## A. SCOPE 範疇

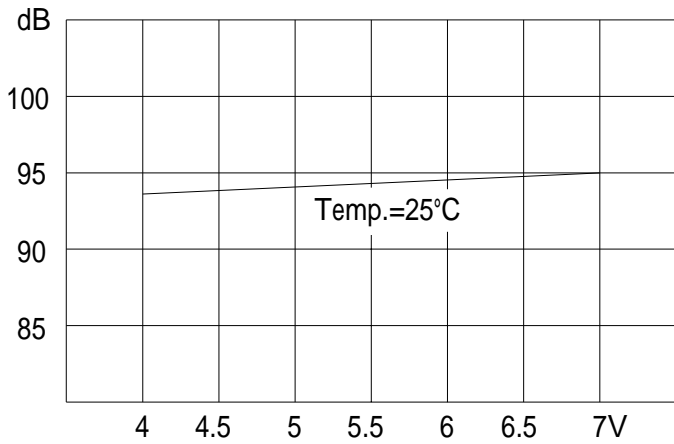
This specification applies magnetic buzzer, **KXG1205CL**  
此規格書適用於電磁式蜂鳴器, **KXG1205CL**

## B. SPECIFICATION 規格

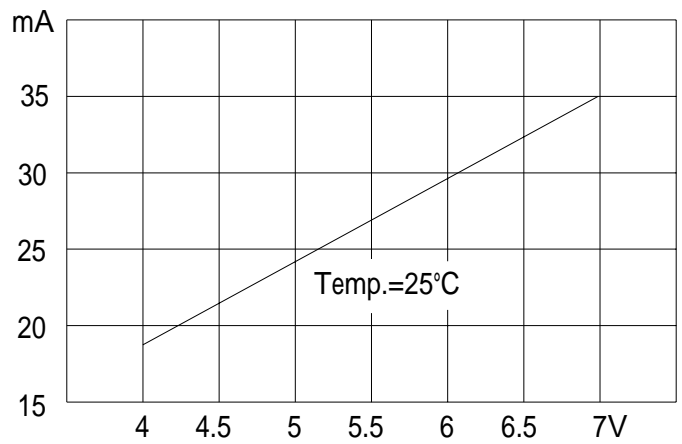
No.	Item	Unit	Specification	Condition
1	Rated Voltage 額定電壓	V <sub>DC</sub>	5.0	
2	Operating Volt. 操作電壓	V <sub>DC</sub>	4.0~7.0	
3	Mean Current 平均耗電流	mA	Max. 30	
4	Sound Output 輸出音壓	dBA	Min.85 (Typical 94)	Distance at 10cm(A-weight free air). Applying rated voltage . 在自由音場 10 公分處, 施以額定電壓.
5	Resonant Frequency 諧振頻率	Hz	2300 ± 300	
6	Operating Temp. 操作溫度		-20 ~ +60	
7	Storage Temp. 儲存溫度		-30 ~ +70	
8	Dimension 尺寸	mm	12.0 x H7.5	See attached drawing. 請參照外觀尺寸圖
9	Weight 重量	gram	1.40	
10	Material 材質		PPO (Black)	
11	Terminal 端子		Pin type (鍍化金/Plating Au)	See attached drawing. 請參照外觀尺寸圖
12	Environmental Protection Regulation 環保法規		RoHS	

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

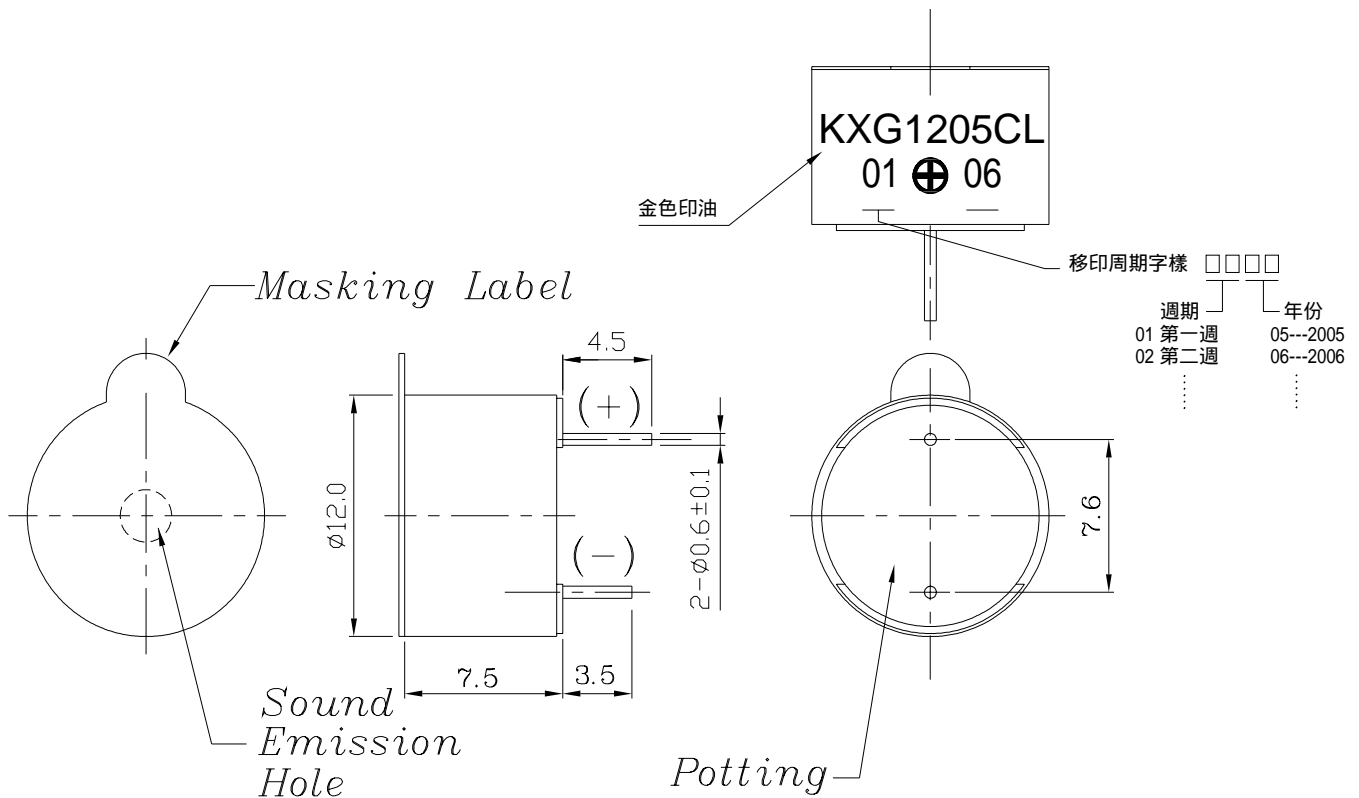
**VOLTAGE-SOUND PRESSURE LEVEL**



**VOLTAGE-CURRENT CONSUMPTION**



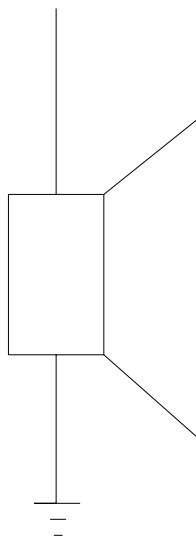
**D. APPEARANCE DRAWING 外觀尺寸圖**



**Tol:  $\pm$  0.5**  
**Unit: mm**

## E. MEASUREMENT METHOD 測量方式

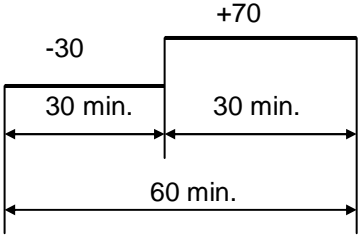
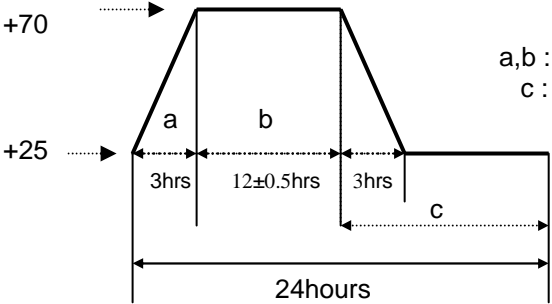
+V DC



## F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	Evaluation standard
1	Solderability 焊錫附著性	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm 5$ for $3\pm 1$ seconds. 端子部份浸入松香溶液 5 秒後,再浸入 $+270\pm 5$ 熔融焊錫槽中 $3\pm 1$ 秒.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal) 浸入端子部份附著焊錫 90%以上.(末端斷面不算)
2	Soldering Heat Resistance 焊錫耐熱性	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of $+260\pm 5$ for $3\pm 1$ seconds. 距離端子根部 1.5mm 的位置,浸入 $+260\pm 5$ 的焊錫槽 $3\pm 1$ 秒.	No interference in operation 操作上無任何不良
3	Terminal Mechanical Strength 端子強度	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction. 各端子的軸方向施以 9.8N(1.0kg)的力量 10 秒.	No damage and cutting off 端子不鬆動, 不脫落
4	Vibration 振動測試	Buzzer 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.	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in $\pm 10$ dBA compared with initial one.
5	Drop test 落下測試	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times). 單體從 75 公分高處, X.Y.Z.3 個方向,各 3 回,落於 40mm 厚木板上.	經測試後,單體除音壓外,外觀及電氣特性須符合規格. 輸出音壓變化量須 $\pm 10$ dBA 內.

## G. ENVIRONMENT TEST 環境測試

No.	Item	Test condition	Evaluation standard
1	High temp. test 高溫測試	After being placed in a chamber at +70 for 96 hours. 置於+70 環境中 96 小時	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25 . the SPL should be in $\pm 10\text{dBA}$ compared with initial one. 經測試後，靜置於+25 (室溫) 環境中 4 小時後，單體除音壓外，外觀及電氣特性須符合規格。輸出音壓變化量須在 $\pm 10\text{dBA}$ 內。
2	Low temp. test 低溫測試	After being placed in a chamber at -30 for 96 hours. 置於-30 環境中 96 小時	
3	Thermal Shock 熱衝擊試驗	The part shall be subjected to 10 cycles. One cycle shall consist of; 對單體施以熱衝擊試驗 10 次循環,其循環內容如圖示 	
4	Temp./ Humidity Cycle 溫度/溼度循環測試	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of; 單體承受溫度/溼度循環測試 10 次.其循環內容如圖示 	

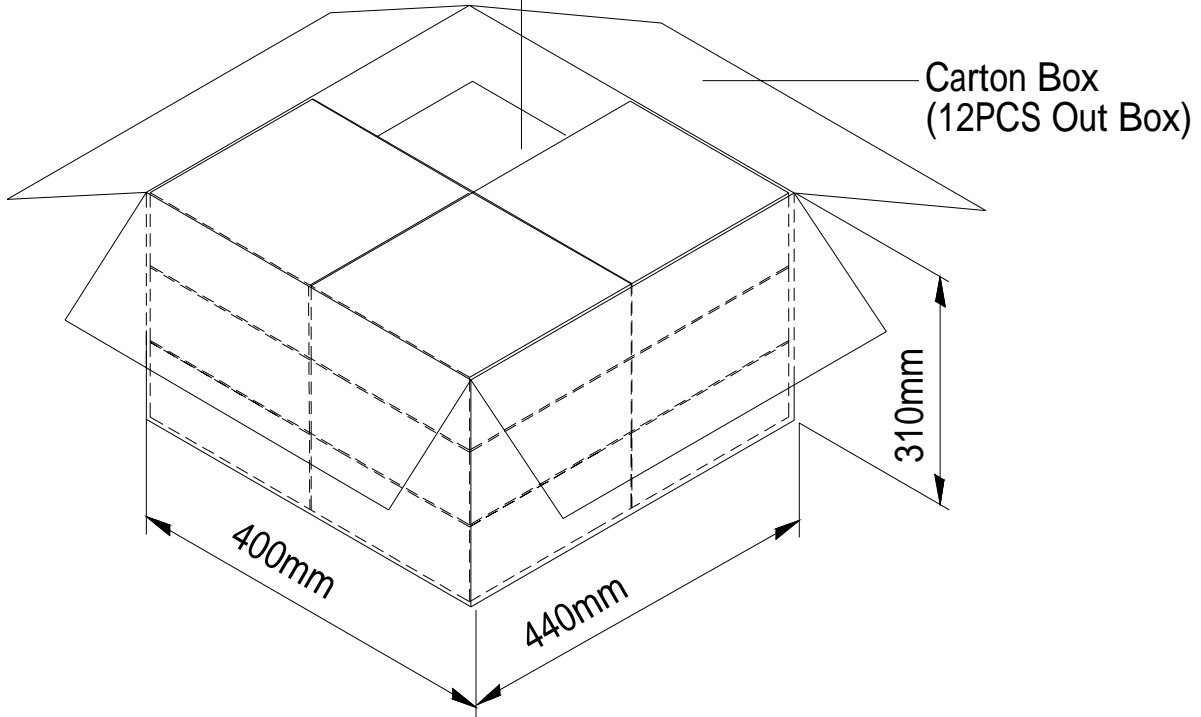
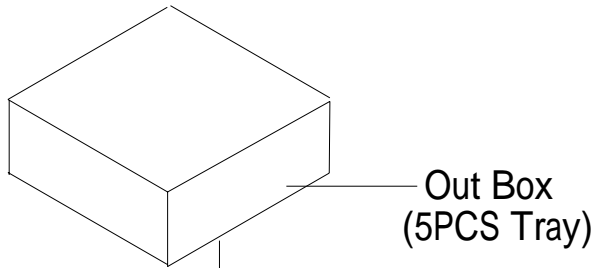
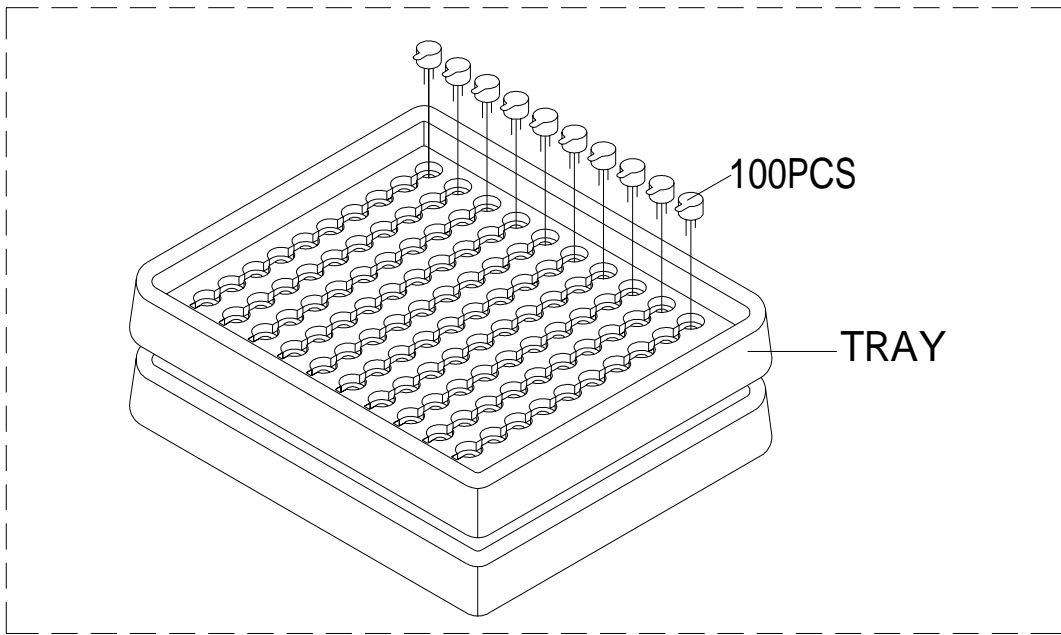
## H. RELIABILITY TEST 信賴性測試

No.	Item	Test condition	Evaluation standard
1	Operating life test 壽命測試	1. Continuous life test 高溫壽命測試(連續) The part shall be subjected to 72 hours at +45 with 5.0VDC applied. 在+45 環境下，輸入 5.0VDC, 連續操作 72 小時。 2. Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp.( +25 $\pm$ 10 ) with 5.0VDC applied. 在室溫下(+25 $\pm$ 10 ), 輸入 5.0VDC, 通電 1 分鐘/斷電 1 分鐘, 測試 10000 次循環。	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25 . the SPL should be in $\pm 10\text{dBA}$ compared with initial one. 經測試後，靜置於+25 (室溫) 環境中 4 小時後，單體除音壓外，外觀及電氣特性須符合規格。輸出音壓變化量須在 $\pm 10\text{dBA}$ 內。

### TEST CONDITION.

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

# I. PACKING STANDARD 包裝規格



Tray	184mmx184mmx23mm	1x100PCS=100PCS
Out Box	200mmx190mmx100mm	5LAYERx100PCS=500PCS
Carton Box	440mmx400mmx310mm	500PCSx12=6000PCS