## SPECIFICATION FOR APPROVAL

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Number Of The Edition:

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書

Description : Magnetic Buzzer

Kingstate Part No. : KXG1203C

Customer's Model No. : TKS-5026

CUSTOMER'S APPROVED SIGNATURE			
THE ACTION AND ACTION ASSESSMENT AND ACTION ASSESSMENT			

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



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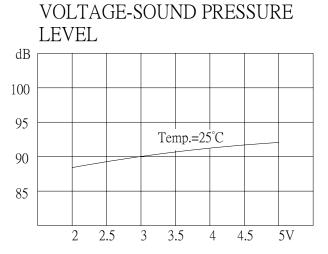
## A. SCOPE 範疇

This specification applies magnetic buzzer, **KXG1203C** 此規格書適用於電磁式蜂鳴器, **KXG1203C** 

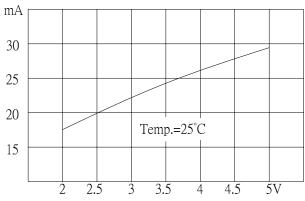
#### B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Rated Voltage 額定電壓	V <sub>DC</sub>	3.0	
2	Operating Volt. 操作電壓	V <sub>DC</sub>	2.0~5.0	
3	Mean Current 平均耗電流	mA	Max. 30	
4	Sound Output 輸出音壓	dBA	Min.85 (Typical 90)	Standard test condition Distance at 10cm (A-weight free air). Applying rated voltage. 在標准測試環境下,自由音場 10 公分處, 施以額定電壓.
5	Resonant Frequency 諧振頻率	Hz	2300 ± 400	
6	Operating Temp. 操作温度	$^{\circ}$ C	-30 ~ +70	SPL Min75dB at "4" condition 音壓 Min75dB,在第四項測試條件
7	Storage Temp. 儲存溫度	$^{\circ}$	-40 ~ +80	
8	Dimension 尺寸	mm	φ12.0 × H9.5	See attached drawing. 請參照外觀尺寸圖
9	Weight 重量	gram	2.0	
10	Material 材質		PBT+15%Glass (Black)	
11	Terminal 端子		Pin type (鍍全錫/Plating Sn)	See attached drawing. 請參照外觀尺寸圖
12	Potting 灌封		Two-component Epoxy 双组份环氧	
13	Environmental Protection Regulation 環保法規		RoHS	
12	Storage life 保存期限	month	6	6 months preservation at room temp.(25±3℃), Humidity40% 在室溫下 25±3℃,濕度 40%以下可保存 6 個月

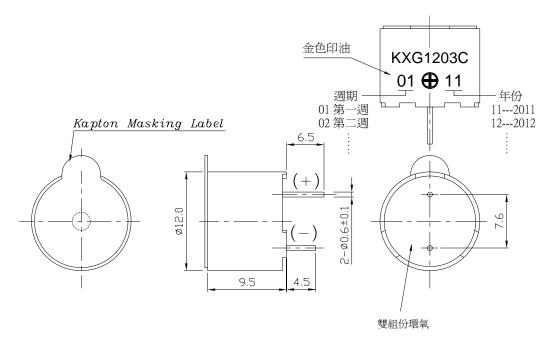
#### C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



# VOLTAGE-CURRENT CONSUMPTION

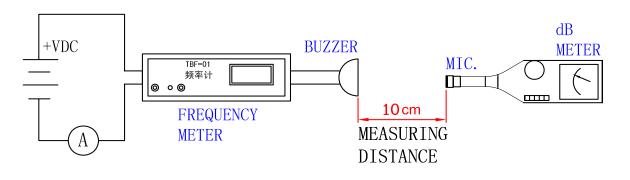


#### D. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

#### E. MEASUREMENT METHOD 测量方式



志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 3/6 KXG1203C

#### F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	<b>Evaluation standard</b>	
1	Solderability 焊錫附著性	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ for 3±1 seconds. 端子部份浸入松香溶液 5 秒後,再浸入+270±5℃溶融焊鍚槽中 3±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±5℃ for 10±1 seconds. 距離端子根部 1.5mm 的位置,浸入+260±5℃的焊錫槽 10±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 ±10dBA 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±10dBA	

#### G. ENVIRONMENT TEST 環境測試

No.	Item	Test condition	<b>Evaluation standard</b>	
1	High temp. test 高溫測試	After being placed in a chamber at +80℃ for 96 hours. 置於+80℃環境中 96 小時		
2	Low temp. test 低溫測試	After being placed in a chamber at -40℃ for 96 hours. 置於-40℃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 +80℃ -40℃ 30 min. 30 min.	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 ±10dBA 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±10dBA內.	
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 +80°C a,b:90~98%RH c:80~98%RH c:80~98%RH		

#### H. RELIABILITY TEST 信賴性測試

No.	Item	Test condition	<b>Evaluation standard</b>
1	Operating life test 壽命測試	The part shall be subjected to 72 hours at +55 € with 3VDC applied.  在+55 ℃環境下,輸入 3VDC, 連續操作 72 小時.  2.Intermittent life test 室溫壽命測試(間歇).	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 ±10dBA 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±10dBA內.

#### **TEST CONDITION.**

Standard Test Condition : a) Temperature :  $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar

: a) 溫度:+5~+35℃ b) 濕度:45-85% 一般測試條件

爭議時測試條件 : a) 溫度:+25±2℃

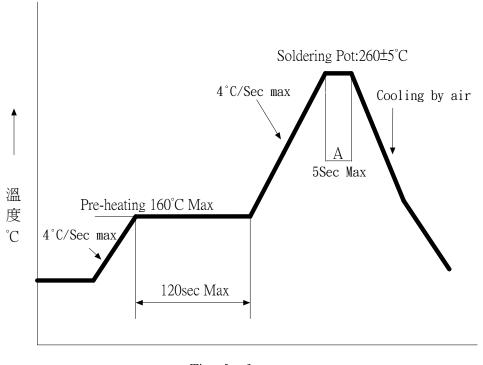
b) 濕度:60-70%

c) 氣壓: 860-1060mbar

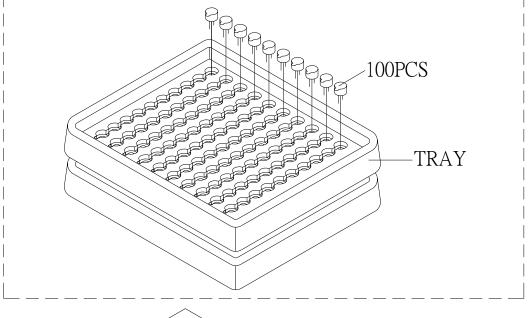
Judgment Test Condition : a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

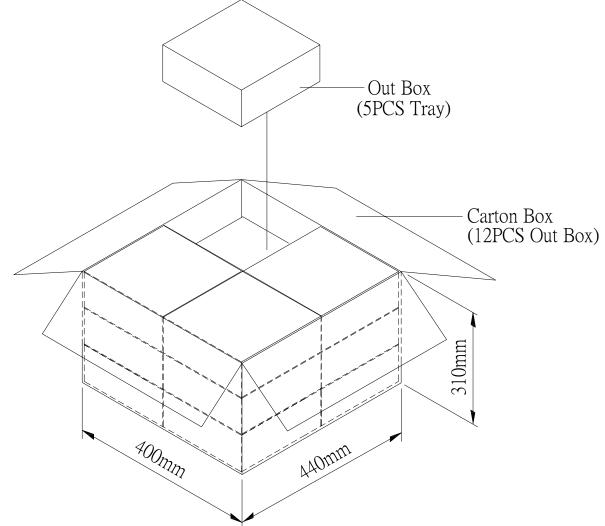
c) 氣壓:860-1060mbar

#### Recommended Temperature Profile For Wave Soldering 建議爐溫曲線 I.



# J. PACKING STANDARD 包裝規格





Tray	184mmx184mmx23mm	10x10PCS=100PCS
Out Box	200mmx190mmx100mm	5LAYERx100PCS=500PCS
Carton Box	440mmx400mmx310mm	500PCSx12=6,000PCS