SPECIFICATION FOR APPROVAL

承 認 書

Description : Magnetic Buzzer

Kingstate Part No. : KTG1205C

Customer's Model No.:

Specification No. : TKS-7184

Number Of The Edition: 2.2

CUSTOMER'S APPROVED SIGNATURE			

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Approved by	Checked by	Issued by
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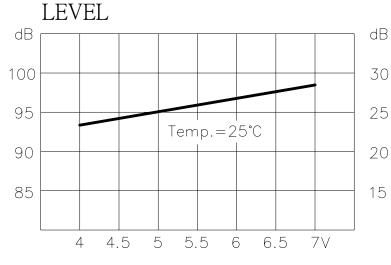
A. SCOPE 範疇

This specification applies magnetic buzzer, **KTG1205C** 此規格書適用於電磁式蜂鳴器, **KTG1205C**

B. SPECIFICATION 規格

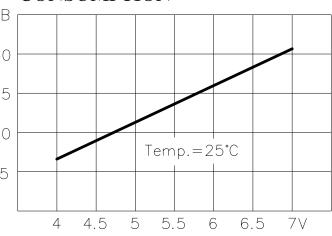
No.	Item	Unit	Specification	Condition
1	Rated Voltage 額定電壓	V_{DC}	5.0	
2	Operating Volt. 操作電壓	V_{DC}	4.0~7.0	
3	Mean Current 平均耗電流	mA	Max. 30	
4	Sound Output 輸出音壓	dBA	Min.90 (Typical 94)	Distance at 10cm(A-weight free air). Applying rated voltage. 在自由音場 10 公分處, 施以額定電壓.
5	Resonant Frequency 諧振頻率	Hz	2400 ± 300	
6	Operating Temp. 操作溫度	$^{\circ}\! \mathbb{C}$	-30 ~ +70	
7	Storage Temp. 儲存溫度	$^{\circ}\!\mathbb{C}$	-40 ~ +85	
8	Dimension 尺寸	mm	L12.8 x W12.8 x H10.0	See attached drawing. 請參照外觀尺寸圖
9	Weight 重量	gram	2.0	
10	Material 材質		PPS(S-206)	
11	Terminal 端子		SMD type (鍍全錫/Plating Sn)	See attached drawing. 請參照外觀尺寸圖
12	Environmental Protection Regulation 環保法規		RoHS	
13	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-SOUND PRESSURE

VOLTAGE-CURRENT CONSUMPTION



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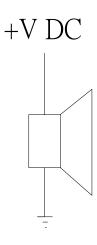
D. APPEARANCE DRAWING 外觀尺寸圖 10.0 ±0.3 12.8 ± 0.3 6.4 ± 0.3 3.5 12.8 ± 0.3 2.0 ±0.3 A - A 9.8 ± 0.3 0.5 ± 0.1 3 ± 0.3 金色印油 -移印周期字樣 🔲 🔲 🗎 -(金色) 週期 一 KTG1205C 上年份 05---2005 06---2006 01 第一週 02 第二週 **^**2405 **⊕** PCB/ PIN

Tol: ± 0.5 Unit: mm

CASE凸點

E. MEASUREMENT METHOD 测量方式

A-A處放大示圖



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 solder bath of +270±5℃ for 3±1 second. 端子置於錫膏內,錫膏溫度:+270±5℃. 焊接時間: 3±1 秒.	95% surface of lead pads must be covered with fresh solder 錫膏須覆蓋端子上方 95%	
2	Soldering Heat Resistance 焊錫耐熱性	The product is followed the reflow temperature curve to test its reflow thermo stability. 產品依照迴焊溫度曲線測試迴焊耐熱性.	No interference in operation 操作上無任何不良	
3	Terminal Mechanical Strength 端子強度	Lead pads shall be soldered on the pc board, and the force 9.8N (1.0kg) shall be applied behind the part for 10 seconds. 將端子焊在 PC 板上後,對單體施以 9.8N(1.0kg)拉力 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.	meet specifications with-out any damage in appearance and the SPL should be in	
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.	the SPL should be in ±10dBA compared with initial one. 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 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 +85℃ for 96 hours. 置於+85℃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	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.
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 +85℃ -40℃ 30 min. 30 min.	
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 +85℃ 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	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 +55℃ with 5.0VDC applied. 在+55℃環境下,輸入 5.0VDC,連續操作 72 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 ±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

一般測試條件

a) 温度:+5~+35℃ b) 濕度:45-85% c) 氣壓:860-1060mbar

Judgement Test Condition :

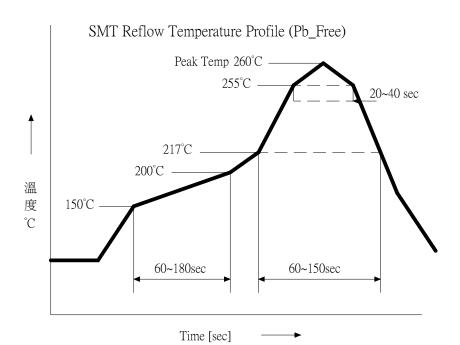
a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar

爭議時測試條件 :

a) 溫度:+25±2℃

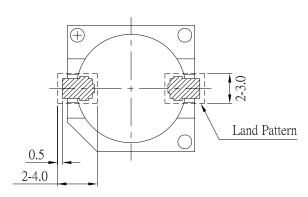
b) 濕度:60-70% c) 氣壓:860-1060mbar

I. Recommended Temperature Profile For Reflow Oven 建議迴焊爐溫度曲線



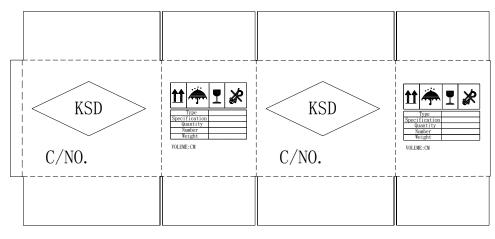
J. Recommended land pattern 建議基板設計尺寸圖

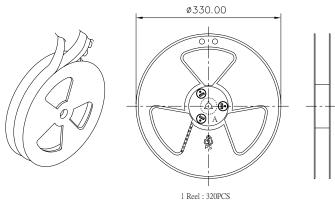
Recommendable Land Pattern

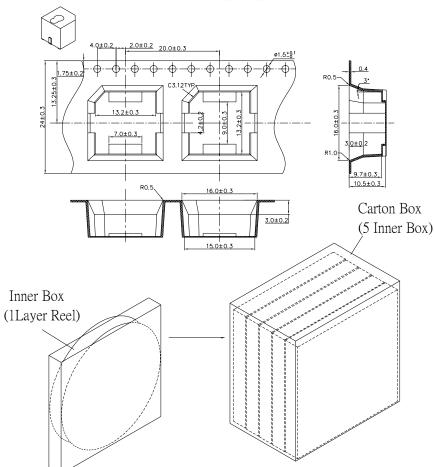


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K. PACKING STANDARD 包裝規格







Inner Box	340mmx340mmx33mm	1x320PCS=320PCS
Carton Box	350mmx175mmx355mm	5x320PCS=1,600PCS