SPECIFICATION FOR APPROVAL

承

認

書

Description	:	Magnetic Buzzer
Kingstate Part No.	:	KTG1205
Customer's Model No.	:	
Specification No.		TKS-7204
Number Of The Edition	•	1.2

CUSTON	CUSTOMER'S APPROVED SIGNATURE			

KINGSTATE

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Approved by	Checked by	Issued by
1 Ay 2/18/06'	TA 2/1/06	Fei 2/17/06'

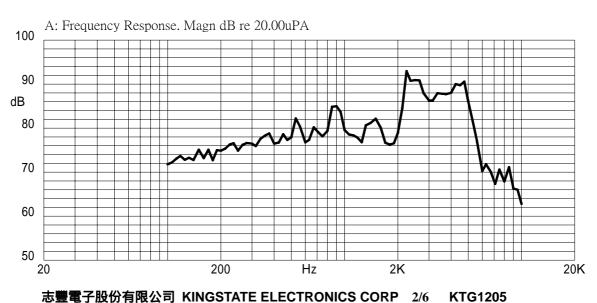
A. SCOPE 範疇

This specification applies magnetic buzzer, **KTG1205** 此規格書適用於電磁式蜂鳴器, **KTG1205**

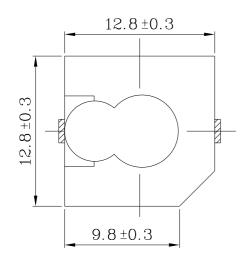
B. SPECIFICATION 規格

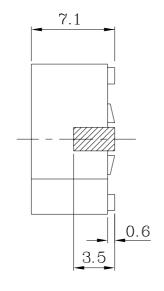
No.	Item	Unit	Specification	Condition
1	Rated Voltage 額定電壓	Vo-p	5.0	Vo-p
2	Operating Volt. 操作電壓	Vo-p	3.0 ~ 8.0	OV
3	Mean Current 平均耗電流	mA	Max. 40	Applying rated voltage,2400Hz square wave, 1/2duty 施以額定電壓 2400Hz,方波,50%負載
4	Coil Resistance 直流阻抗		45.0 ± 6.7	
5	Sound Output 輸出音壓	dBA	Min.87 (Typical 92)	Distance at 10cm(A-weight). Applying rated voltage 2400Hz,square wave, 1/2duty 在自由音場 10 公分處,施以額定電壓 2400Hz,方波50%負載
6	Rated Frequency 額定頻率	Hz	2400	
7	Operating Temp. 操作温度		-30 ~ +85	
8	Storage Temp. 儲存溫度		-40 ~ +85	
9	Dimension 尺寸	mm	L12.8 x W12.8 x H7.1	See attached drawing. 請參照外觀尺寸圖
10	Weight 重量	gram	2.0	
11	Material 材質		PPS (S-206)	
12	Terminal 端子		SMD type (鍍全錫/Plating Sn)	See attached drawing. 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規		RoHS	
14	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.

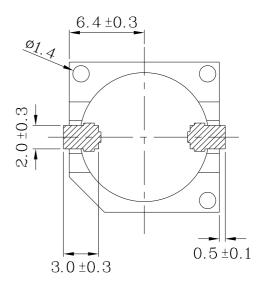
C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

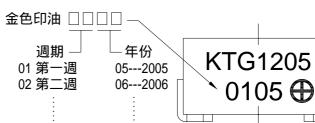


D. APPEARANCE DRAWING 外觀尺寸圖



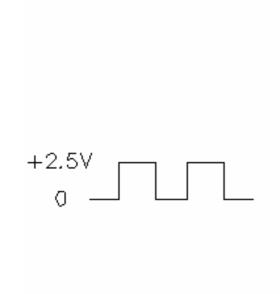


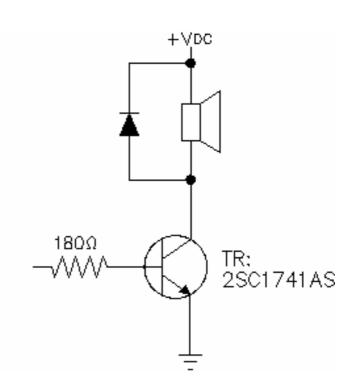




Tol: ± 0.5 Unit: mm

E. MEASUREMENT METHOD 测量方式

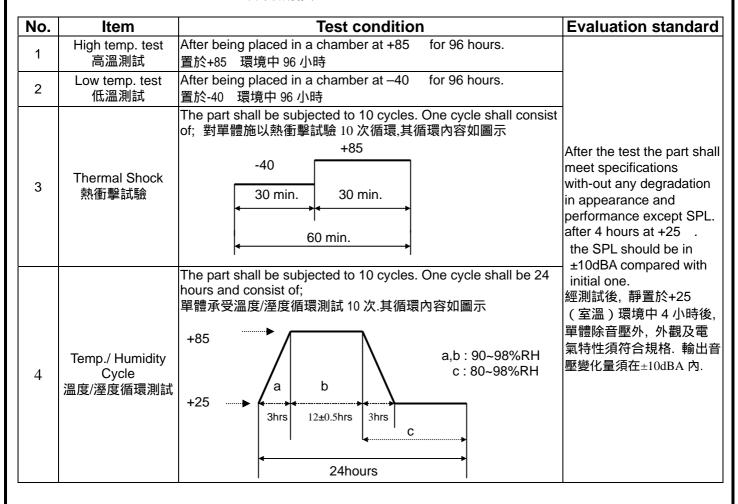




F. MECHANICAL CHARACTERISTICS 機械特性

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	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	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in
5	Drop test 落下測試	40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	觀及電氣特性須符合規格.

G. ENVIRONMENT TEST 環境測試



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 +70 with 5.0V, 2400Hz applied. 在+70 環境下,輸入 5.0V, 2400Hz 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±10) with 5.0V, 2400Hz applied. 在室溫下(+25±10), 輸入 5.0V, 2400Hz 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 ±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

一般測試條件

Judgement Test Condition : 爭議時測試條件 :

a) Temperature: +5 ~ +35

a) 溫度:+5~+35

a) 溫度:+25±2

b) 濕度:60-70%

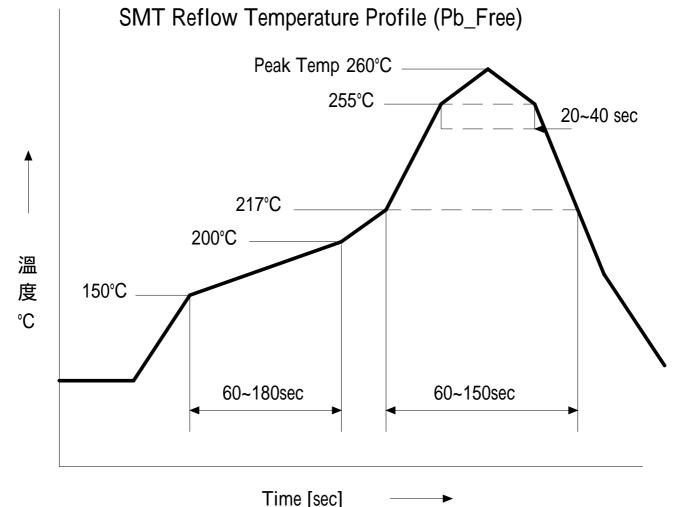
b) Humidity: 45-85% c) Pressure: 860-1060mbar

b) 濕度:45-85% c) 氣壓:860-1060mbar

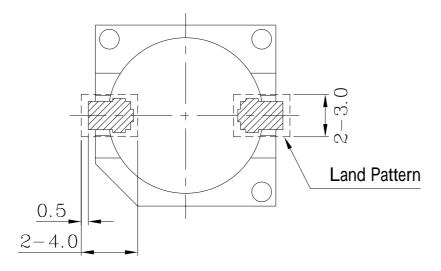
a) Temperature : $+25 \pm 2$ b) Humidity : 60-70% c) Pressure : 860-1060mbar

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



K. PACKING STANDARD 包裝規格

