SPECIFICATION FOR APPROVAL

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書

Description		Magnetic Buzzer
Kingstate Part No.	:	KSTG931AP
Customer's Model No.	:	
Specification No.	:	TKS-7101
Number Of The Edition	:	1.3

CUSTOMER'S APPROVED SIGNATURE			

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Approved by	Checked by	Issued by
13/9/06	7年2年31/06	Shen 3/07/06'

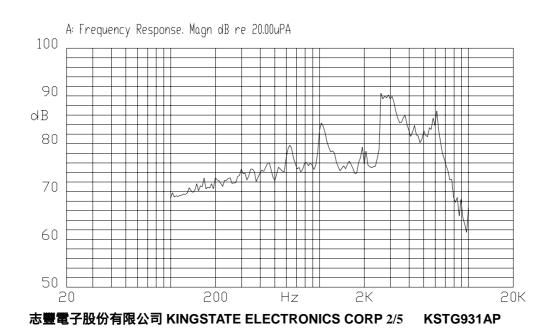
A. SCOPE 範疇

This specification applies magnetic buzzer, **KSTG931AP** 此規格書適用於電磁式蜂鳴器, **KSTG931AP**

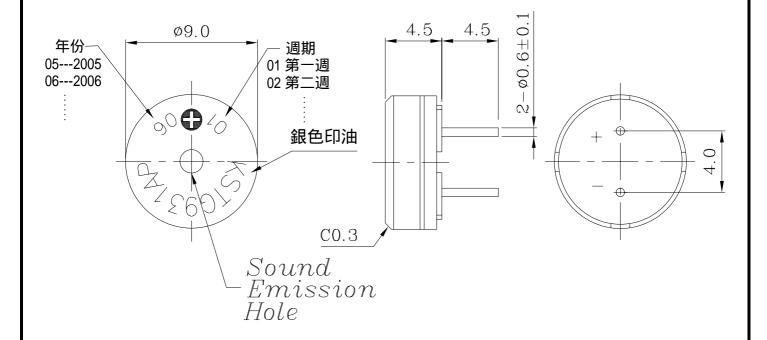
B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Rated Voltage 額定電壓	Vo-p	3.0	Vo-p 🛉
2	Operating Volt. 操作電壓	Vo-p	2.0~4.0	OV
3	Mean Current 平均耗電流	mA	Max. 80	Applying rated voltage,2730Hz square wave, 1/2duty 施以額定電壓 2730Hz,方波 50%負載
4	Coil Resistance 直流阻抗		15.0 ± 2.3	
5	Sound Output 輸出音壓	dBA	Min. 85 (Typical 92)	Distance at 10cm(A-weight free air). Applying rated voltage 2730Hz,square wave, 1/2duty 在自由音場 10 公分處,施以額定電壓,2730Hz, 方波,50%負載
6	Rated Frequency 額定頻率	Hz	2730	
7	Operating Temp. 操作温度		-20 ~ +60	
8	Storage Temp. 儲存溫度		-30 ~ +70	
9	Dimension 尺寸	mm	9.0 × H4.5	See attached drawing. 請參照外觀尺寸圖
10	Weight 重量	gram	0.60	
11	Material 材質		PPO(Black)	
12	Terminal 端子		Pin type (鍍化金/Plating Au)	See attached drawing. 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規		RoHS	

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

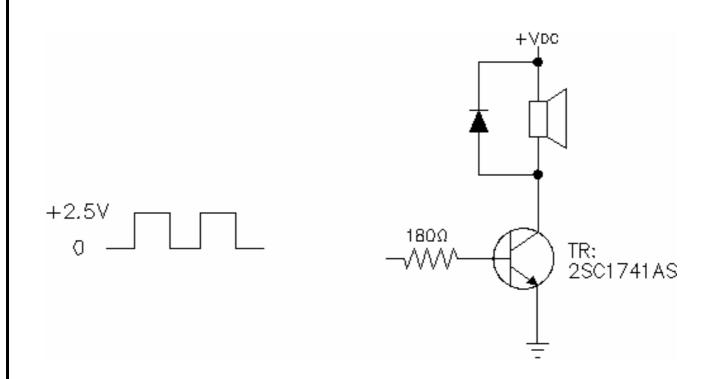


D. APPEARANCE DRAWING 外觀尺寸圖



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 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 3±1 seconds. 距離端子根部 1.5mm 的位置,浸入+260±5 的焊錫槽 3±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		
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 +70 -30 30 min. 30 min. 60 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	
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 +70 a,b:90~98%RH c:80~98%RH c:80~98%RH	the SPL should be in ±10dBA. 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. 輸出音壓為±10dBA內.	

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 3V,2730Hz applied. 在+45 環境下,輸入 3V,2730Hz 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 3V,2730Hz applied. 在室溫下(+25±10),輸入 3V,2730Hz 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. 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.輸出音壓為±10dBA 內.

TEST CONDITION.

Standard Test Condition 一般測試條件

爭議時測試條件

a) 温度:+5~+35

a) 温度:+25±2

b) 濕度:45-85%

b) 濕度:60-70%

a) Temperature : +5 ~ +35 b) Humidity : 45-85% c) Pressure : 860-1060mbar

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

I. PACKING STANDARD 包裝規格

