

SPECIFICATION FOR APPROVAL

承 認 書

Description : Electronic Chime

Kingstate Part No. : KMPG666-4

Customer's Model No. : _____

Specification No. : PKD-7651

Number Of The Edition : 1.2

CUSTOMER'S APPROVED SIGNATURE

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

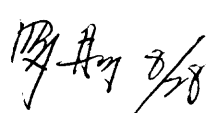
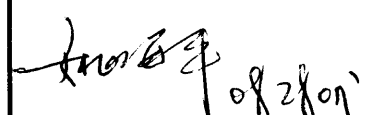


Address : 10F, No. 69-11, Sec. 2, Chung Cheng E. Rd., Tamshui County, Taipei Hsien, Taiwan, R.O.C.

International sales dept.: TEL:886-2-2809-5651 FAX:886-2-2809-7151

Domestic sales dept.: TEL:886-2-2809-0668 FAX:886-2-28096748

<http://www.kingstate.com.tw>

Approved by	Checked by	Issued by
	 08/28/07	Qin 08/27/07

A. SCOPE 範疇

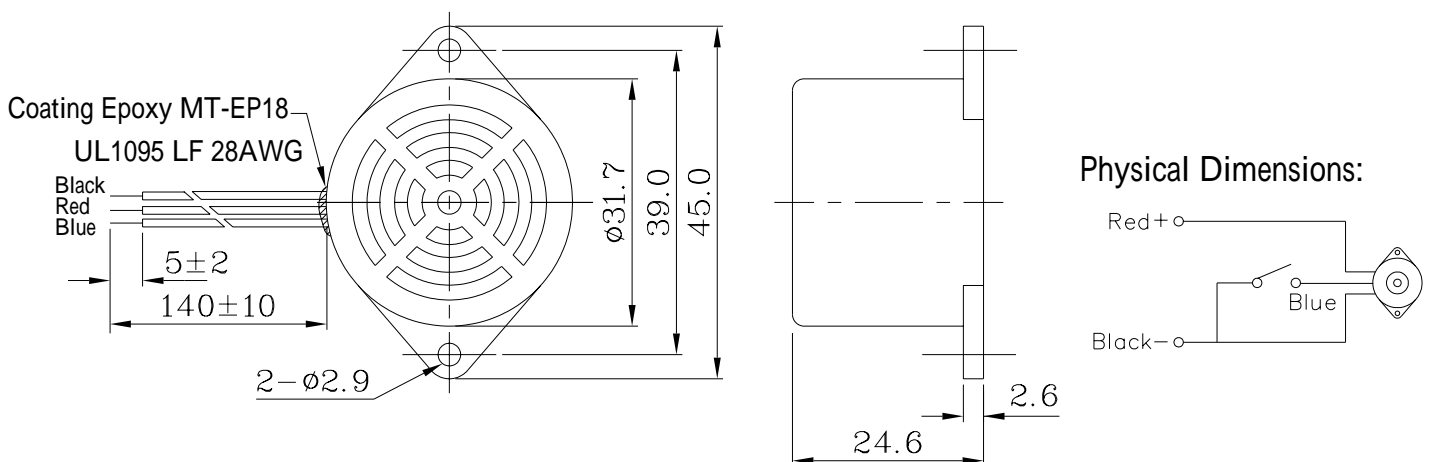
This specification applies electronic chime, **KMPG666-4**

此規格書適用於壓電式蜂鳴器, **KMPG666-4**

B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Resonant frequency 共振頻率	Hz	1230/1010 ± 80	Measure by oscilloscope 使用示波器測量
2	Operating Volt. range 操作電壓範圍	VDC	6 ~ 18	
3	Current consumption 消耗電流	mA	MAX 90mA at 6VDC MAX 125mA at 12VDC MAX 155mA at 18VDC	
4	Sound pressure level 輸出音壓	dB	MIN 75dB at 6VDC MIN 80dB at 12VDC MIN 82dB at 18VDC	at 30cm
5	Standby Current 靜態電流	mA	2.0mA at 6VDC 5.0mA at 12VDC 9.0mA at 18VDC	
6	Tone 聲音		Ding-Dong 叮咚	at 12VDC
7	Operating temp. 操作溫度		-20 ~ +55	
8	Storage temp. 儲存溫度		-25 ~ +60	
9	Dimension 尺寸	mm	31.7 x H24.6	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	18.0	
11	Material 材質		ABS UL-94 1/16" HB (BLACK)	
12	Terminal 端子		Wire Type	See appearance drawing 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規		RoHS	

C. APPEARANCE DRAWING 外觀尺寸圖

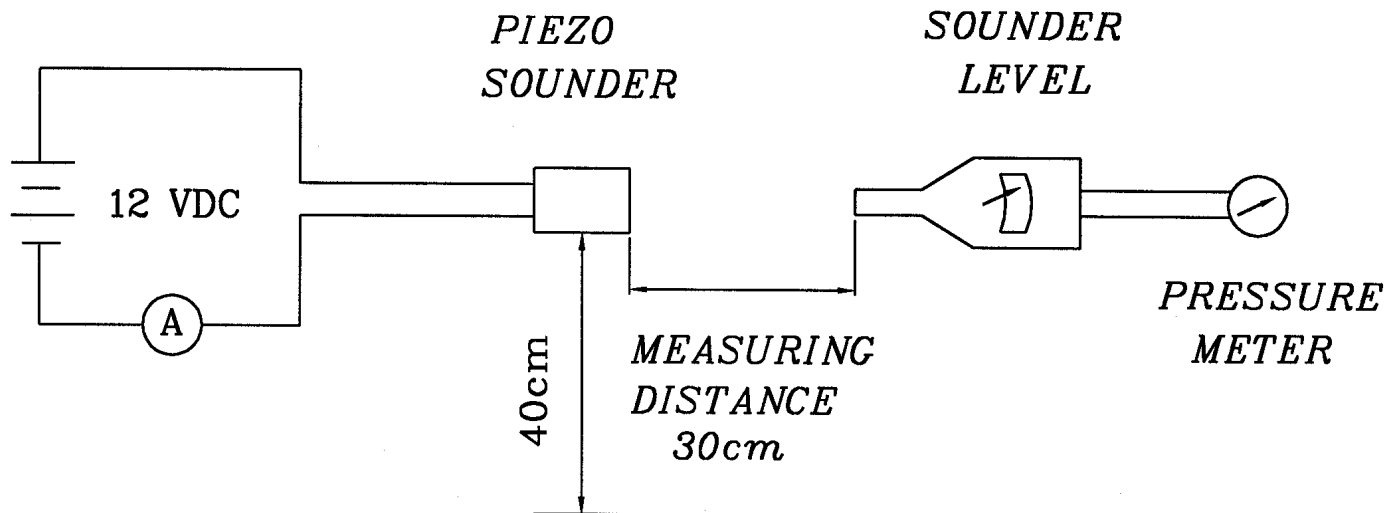


Tol: ± 0.5

Unit: mm

D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



Mic : RION S.P.L meter UC30 or equivalent

Mic : RION 噪音計 UC30 或同等品

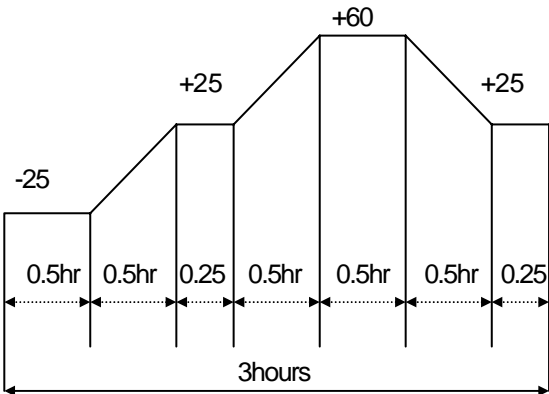
S.G : Hewlett Packard 33120A Function Generator or equivalent

S.G : Hewlett Packard 33120A 函數信號產生器或同等品

E. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊錫附著性 (Connector excepted) 端子類不適用此項	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $+270 \pm 5$ for 3 ± 0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入 $+270 \pm 5$ 溶錫槽 3 ± 0.5 秒.	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊錫 90%以上.(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 雙線材水平方向施以 3.0N(0.306kg)的力量, 垂直方向施以 2.0N(0.204kg)的力量,各 30 秒	No interference in operation. 操作上無任何不良.
3	Vibration 振動試驗	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.	The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one.
4	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.	諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內. 輸出音壓變化量須在 $\pm 10\text{dB}$ 內.

F. 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 +60 for 240 hours 置於+60 環境中 240 小時	Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in ± 10 dB compared with initial one. 經測試後，靜置於+25 (室溫) 環境中 4 小時後，諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內。輸出音壓變化量須在 ± 10 dB 內。
2	Low temp. test 低溫測試	After being placed in a chamber with -25 for 240 hours 置於-25 環境中 240 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at +40 and 90 $\pm 5\%$ relative humidity for 240 hours 置於+40 , 相對濕度 90 $\pm 5\%$ 環境中 240 小時	
4	Temp. cycle test 溫度循環測試	The part shall be subjected to 5 cycles. One cycle shall be consist of : 單體承受溫度循環測試 5 次,其循環內容如圖示: 	

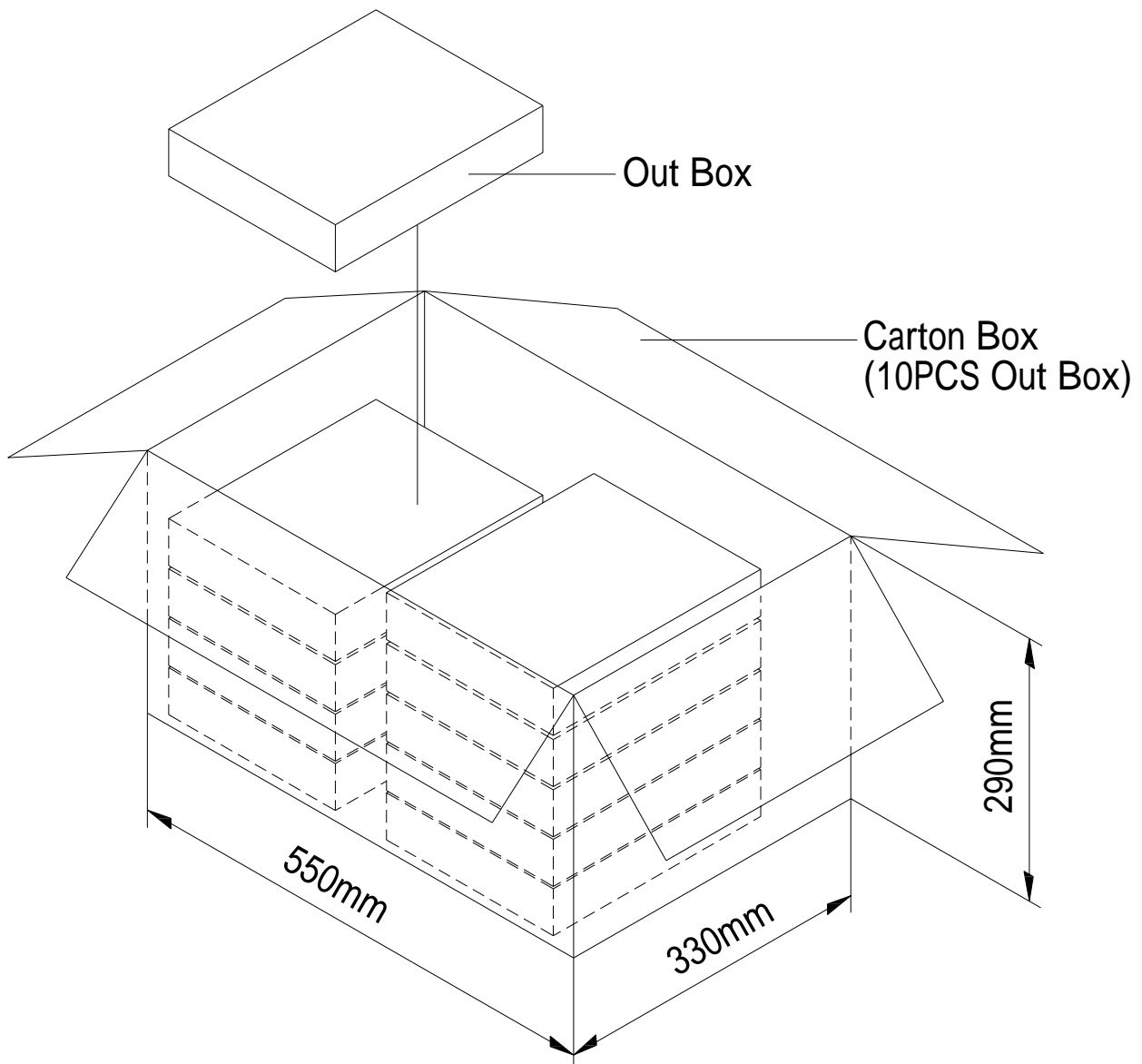
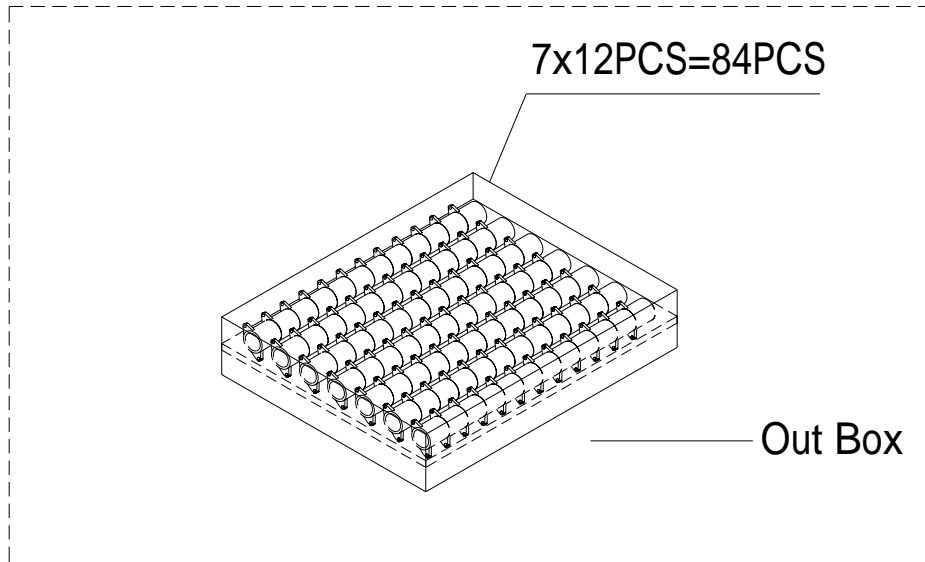
G. RELIABILITY TEST 信賴性測試

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) 48 hours continuous operation at +40 with rated voltage applied. 在+40 環境下,以額定電壓連續操作 48 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 5000 times at room temp.(+25 ± 2)and rated voltage applied. 在室溫下(+25 ± 2), 以額定電壓操作, 通電 1 分鐘斷電 1 分鐘,測試 5000 次循環。	Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in ± 10 dB compared with initial one. 經測試後，靜置於+25 (室溫) 環境中 4 小時後，諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內。輸出音壓變化量須在 ± 10 dB 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 ± 2	b) Humidity : 60-70%	c) Pressure : 860-1060mbar

H. PACKING STANDARD 包裝規格



Out Box	310mmx248mmx49mm	1x84PCS=84PCS
Carton Box	550mmx330mmx290mm	84PCSx10=840PCS