SPECIFICATION FOR APPROVAL

承認

Description	:	Piezo Siren
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Kingstate Part No. **KPEG6673**

Customer's Model No.

POD-7288 Specification No.

Number Of The Edition 1.1

CUSTOMER'S APPROVED SIGNATURE			
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Approved by	Checked by	Issued by
Dwid 18	强起和411/08 1	Feng 4/11/08'

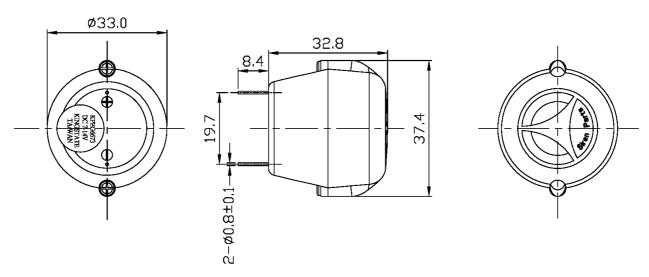
A. SCOPE 範疇

This specification applies piezo audio siren, **KPEG6673** 此規格書適用於壓電式蜂鳴器, **KPEG6673**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	2.0 ~ 4.5	
2	Operating Volt. range 操作電壓範圍	VDC	7~14	
3	Current consumption 消耗電流	mA	MAX 150	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 100	at 30 cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Siren 警報音	at 12VDC
7	Operating temp. 操作溫度		-20 ~ + 60	
8	Storage temp. 儲存溫度		-40 ~ + 80	
9	Dimension 尺寸	mm	37.4 x H32.8	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	20.0	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal 端 了		Pin type (鍍全錫/Plating Sn)	See appearance 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. APPEARANCE DRAWING 外觀尺寸圖



Tol: ±1.0 Unit: mm

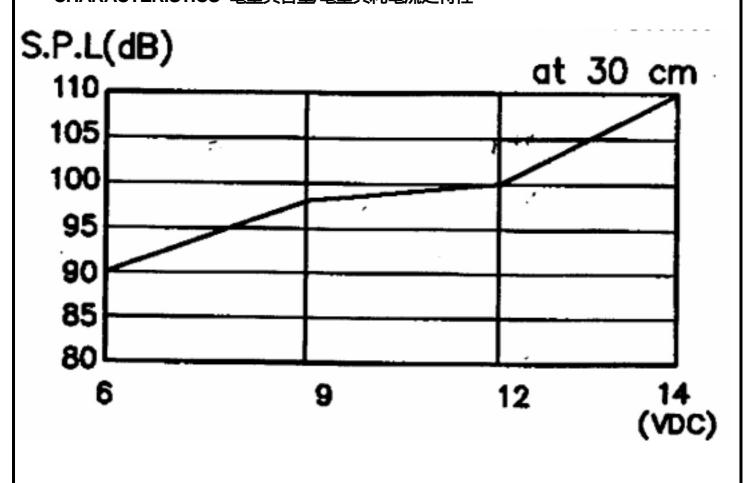
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D. MEASURING METHOD 測量方法 S.P.L. Measuring Circuit 音壓測試接線圖 SPEAKER SOUNDER SOUNDER LEVEL 12 VDC PRESSURE MEASURING METER DISTANCE 30cm

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

Mic: RION 噪音計 UC30 或同等品

E. VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS 電壓與音壓/電壓與耗電流之特性



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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 溶融學緣槽中 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 +300±5 for 3±0.5 seconds or +260±5 for 10±1 seconds. 距離端子根部 1.5mm 的位置,浸入+300±5 的焊緣槽 3±0.5 秒,或+260±5 的焊緣槽 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 振動別試	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 ±10% compared with initial ones .The SPL should be in ±10dR compared with initial	
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.	be in ±10dB compared with initial one. 諧振頻率與消耗電流變化量須在 ±10%內. 輸出音壓變化量須在 ±10dB 內.	

G. ENVIRONMENT TEST 環境測試

No.	ltem	Test Condition	Evaluation standard
1	High temp. test 高温測試	After being placed in a chamber at +80 for 240 hours 置於+80 環境中 240 小時	
2	Low temp. test 低溫測試	After being placed in a chamber at -40 for 240 hours 置於-40 環境中 240 小時	
3	Humidity test 相對濕度測試	直於+40 ,相對為是 90±5% 境境中 240 小時	Being placed for 4 hours at +25, buzzer shall be
4	Temp. cycle test 溫度循環試驗	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: +80 -40 0.5hr 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25 3hours	measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones. The SPL should be in ±10dB 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±10%內.輸出音壓變化量須在±10dB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) 24 hours continuous operation at +40 with rated voltage applied. 在+40 環境下,以額定電壓連續操作 24 小時 2.Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 0.5 minutes off, a minimum of 960 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 0.5 分鐘,測試 960 次循環.	Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB 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±10%內. 輸出音壓變化量須在±10dB內.

TEST CONDITION.

Standard Test Condition

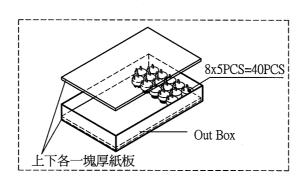
: a) Temperature : +5 \sim +35 b) Humidity : 45-85% c) Pressure : 860-1060mbar

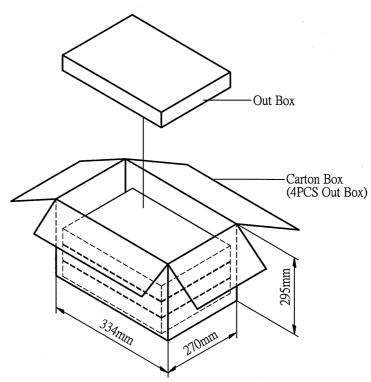
一般測試條件

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

Judgement Test Condition : a) Temperature: +25 ± 2 b) Humidity: 60-70% c) Pressure: 860-1060mbar 等謝詩順試條件 : a) 溫度: +25 ± 2 b) 濕度: 60-70% c) 氣壓: 860-1060mbar

I. PACKING STANDARD 包裝規格





Out Box	310mmx248mmx49mm	1x40PCS=40PCS
Carton Box	334mmx270mmx295mm	40PCSx4=160PCS