SPECIFICATION FOR APPROVAL

承 認

Description	:	Piezo Audio Indicator	
Kingstate Part No.	:	KPEG651SAN	
Customer's Model No.	:		
Specification No.	:	PKD-7483	
Number Of The Edition		11	

CUSTOMER'S APPROVED SIGNATURE				
	,			

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



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Approved by	Checked by	Issued by
13 A3 10/10/05'	18 3E N 10/8/3	TIAN 8/6/05'

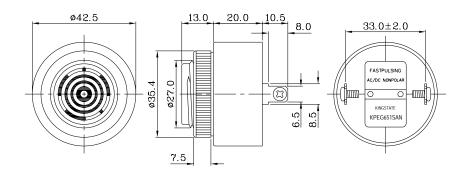
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG651SAN** 此規格書適用於壓電式蜂鳴器, **KPEG651SAN**

B. SPECIFICATION 規格

No.	Item	Unit	Specification		Condition	
1	Resonant frequency 共振頻率	KHz	2.8 ± 0.5			
2	Operating Volt. range 操作電壓範圍	AC/DC	6~28			
3	Current consumption 消耗電流	mA	MAX 5	MAX 26	at 6VDC at 12	at 28VDC VDC
4	Sound pressure level 輸出音壓	dB	MIN 68 MIN	MIN 80 74	at 60cm,6VAC/DC at 60cm	at 60cm,28VAC/DC /12VDC
5	Rated Voltage 額定電壓	VDC	12	2		
6	Tone 聲音		Fast Pulse(3.0Hz±20%) 快斷續音		at 12	VDC
7	Operating temp. 操作温度		-30 ~ +85			
8	Storage temp. 儲存溫度		-40 ~ +85			
9	Dimension 尺寸	mm	42.5 x H33.0		See appeara 請參照外	
10	Weight (MAX) 重量	gram	33.8			
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 appeara 請參照外	
13	Environmental Protection Regulation 環保法規		RoHS			
14	Storage life 保存期限	month	6		6 months preservation a Humidi 在室溫下 25±3 ,濕度 4	ty40%

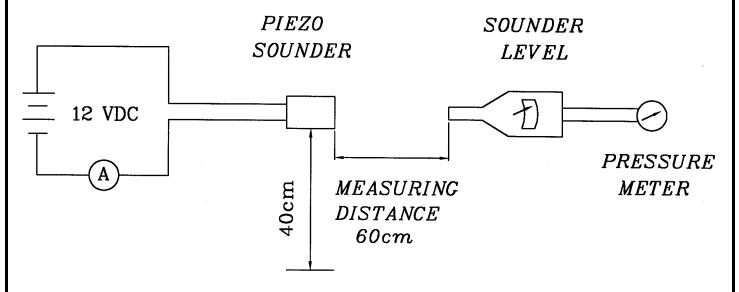
C. APPEARANCE DRAWING 外觀尺寸圖



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

E. 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 學場槽中 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.(末端繼面不算)	
2	Soldering Heat Resistance 焊錫耐熱性	Lead terminal are immersed up to 1.5mm from sounder's body in soilder 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 的焊錫槽 3±0.5 秒,或+260±5 的焊錫槽 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. 振動過波數 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 ± 10dB	
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.	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.	

F. ENVIRONMENT TEST 環境測試

No.	Item	Test Condition	Evaluation standard
1	High temp. test 高温測試	After being placed in a chamber at +85 for 240 hours 置於+85 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 ,相對濕度 90±5% 壞現中 240 小時	Being placed for 4 hours at +25, buzzer shall be
4	Temp. cycle test 溫度循環試驗		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.

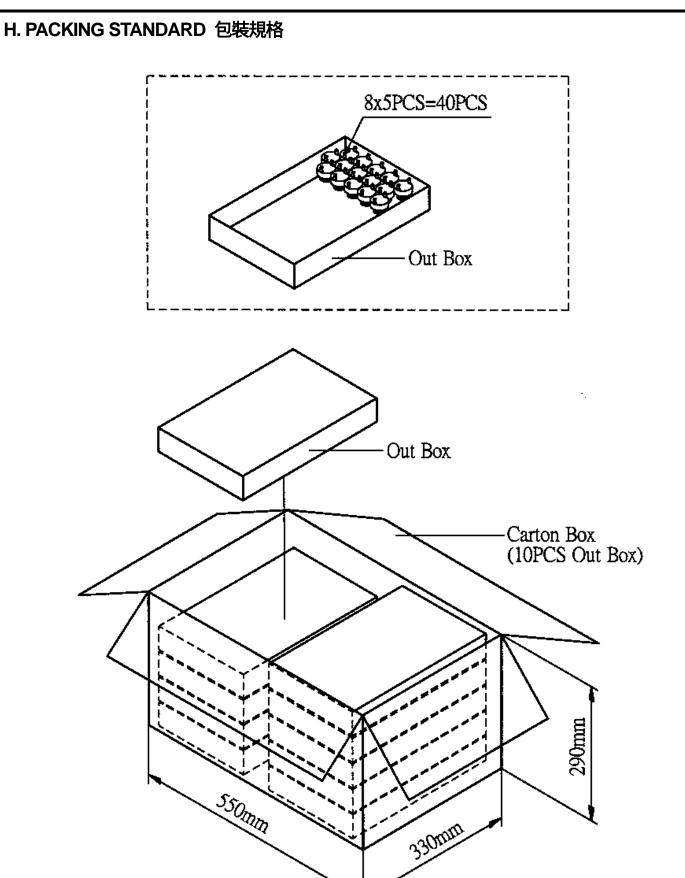
G. RELIABILITY TEST 信賴性測試

No.	ltem	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 +70 with rated voltage applied. 在+70 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 分鐘騰電 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 ±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,諧版與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 ~ +35 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 a) Temperature: +25 ±2 b) Humidity: 60-70% c) Pressure: 860-1060mbar Judgement Test Condition

ent Test Condition : 爭議時測試條件 : b) 濕度:60-70% a) 温度:+25±2 c) 氣壓: 860-1060mbar



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