## SPECIFICATION FOR APPROVAL

承 認

Description	:	Piezo Audio Indicator
Kingstate Part No.	:	KPEG270
Customer's Model No.	:	
Specification No.	:	PKD-7174
Number Of The Edition	•	1.2

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
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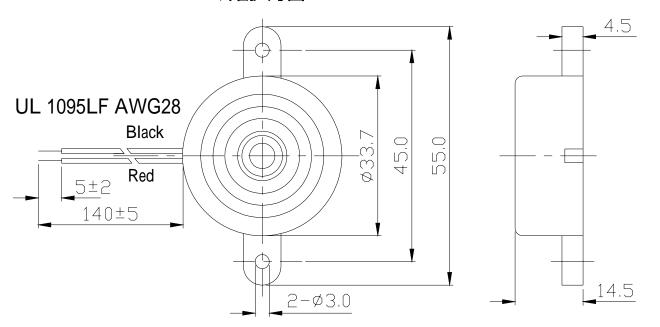
#### A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG270** 此規格書適用於壓電式蜂鳴器,**KPEG270** 

#### B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Resonant frequency 共振頻率	KHz	3.5 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	3~28	
3	Current consumption 消耗電流	mA	MAX 5	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 86	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	
7	Operating temp. 操作温度		-30 ~ +85	
8	Storage temp. 儲存溫度		-40 ~ +95	
9	Dimension 尺寸	mm	33.7 x H14.5	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	7.0	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (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

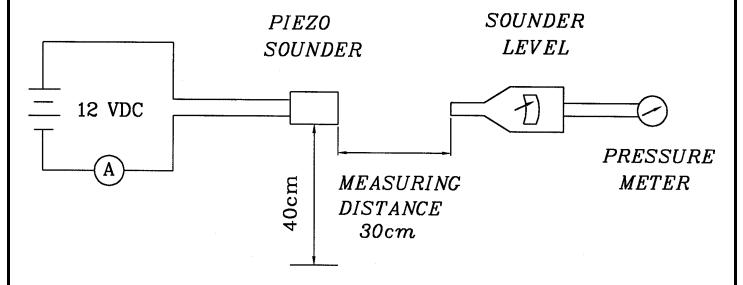


Tol: ± 0.5 Unit: mm

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#### D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



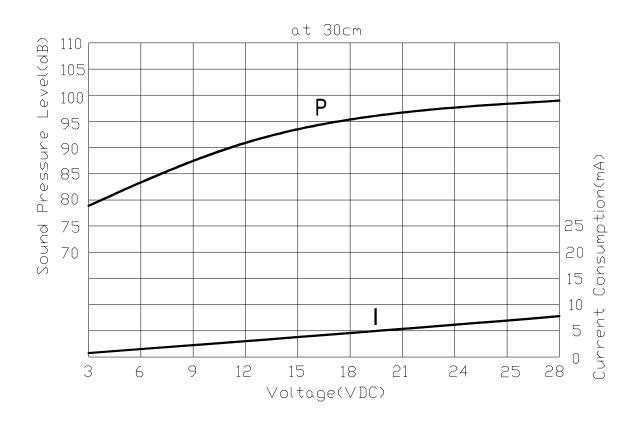
Mic: RION S.P.L meter UC30 or equivalent

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. 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	(Connector evected)	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5 溶晶數旱錫槽 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	Strength 線材拉力		No damage and cutting off. 線材不鬆動,不脫落.	
3	Vibration 振動造場	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.	frequency/ current consumption should be in ±10% compared with initial	
4		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.	ones .The SPL should 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.	Item	Test Condition	Evaluation standard
1	High temp. test 高温測試	After being placed in a chamber at +95 for 240 hours 置於+95 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	After being placed in a chamber at +40 and 90±5% relative humidity for 240 hours 置於+40 ,相對濕度 90±5% 環境中 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:  +95  -40  0.5hr 0.5hr 0.25 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

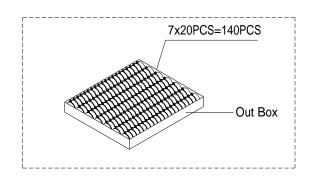
No.	Item	Test condition	Evaluation standard
1	Operating life test 壽命測試	1.Continuous life test 高溫壽命測試(連續) 48 hours continuous operation at +70 with rated voltage applied. 在+70 環境下,以額定電壓連續操作 48 小時. 2.Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at 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/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 ±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,諧辰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.

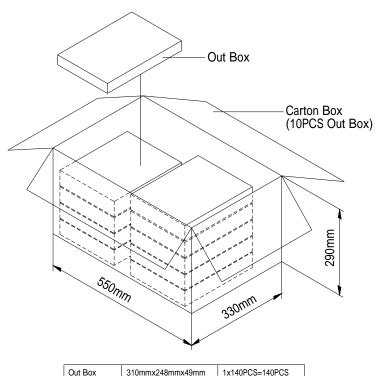
#### **TEST CONDITION.**

Standard Test Condition : a) Temperature: +5 ~ +35 b) Humidity: 45-85% c) Pressure: 860-1060mbar - 般測試條件 : a) 溫度: +5 ~ +35 b) 濕度: 45-85% c) 氣壓: 860-1060mbar c) 如壓: 860-1060mbar a) Temperature: +25 ± 2 b) Humidity: 60-70% c) Pressure: 860-1060mbar

ent Test Condition : a) Temperature : +25 ± 2 b) Humidity : 60-70% c) Pressure : 860-1060mbar 爭議時則試條件 : 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
 1x140PCS=140PCS

 Carton Box
 550mmx330mmx290mm
 140PCSx10=1400PCS

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