## SPECIFICATION FOR APPROVAL

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書

Description : Piezo Audio Indicator

Kingstate Part No. : KPEG267

Customer's Model No. :

Specification No. : PKD-7331

Number Of The Edition : 1.1

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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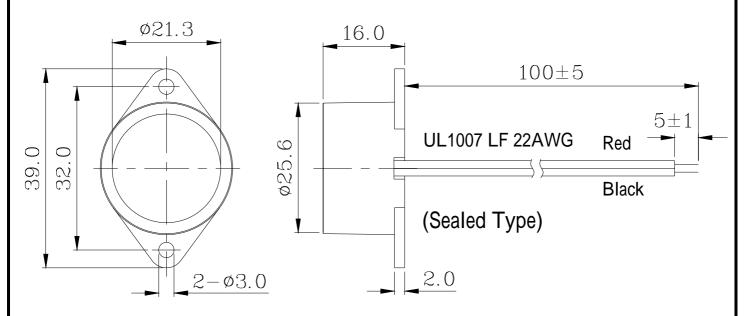
### A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG267** 此規格書適用於壓電式蜂鳴器, **KPEG267** 

### B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	2.8 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	6~14	
3	Current consumption 消耗電流	mA	MAX 35	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 85	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	at 12VDC
7	Operating temp. 操作温度		-30~ + 85	
8	Storage temp. 儲存溫度		-40 ~ +95	
9	Dimension 尺寸	mm	26.0 x H16.0	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) <u>重量</u>	gram	41.0	
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

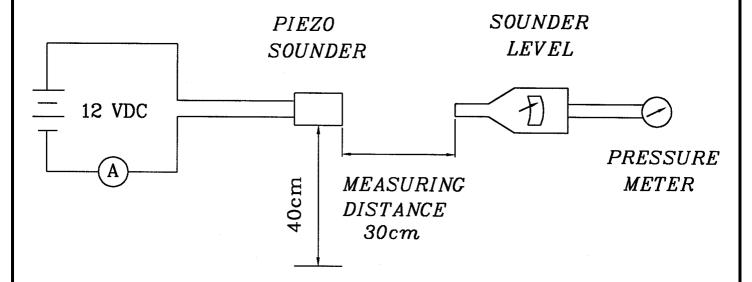


Tol: ± 0.5 Unit: mm

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### D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



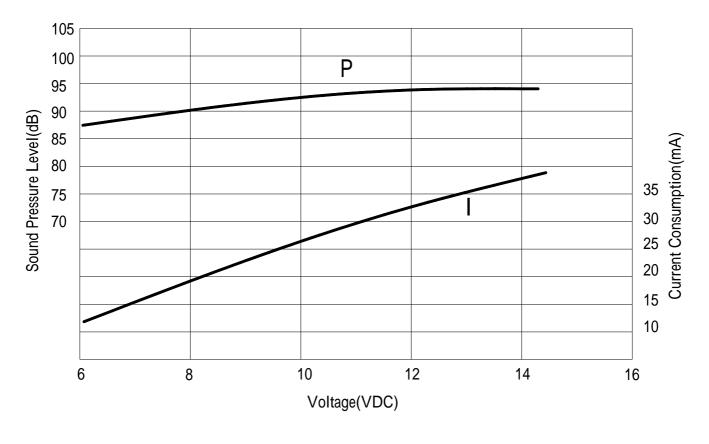
Mic: RION S.P.L meter UC30 or equivalent

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

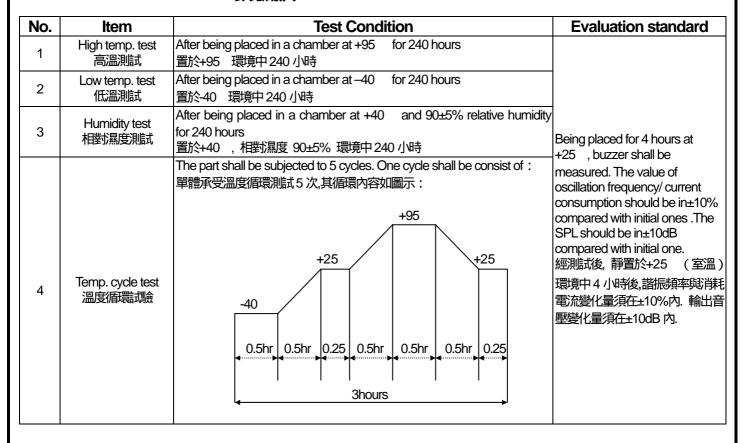


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### F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	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±5 for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5 溶射导線槽 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 damage and cutting off. 線材不鬆動,不脫落.
3	Vibration 振動流式檢	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.Z3個方向,各2小時.	frequency/ current consumption should be in ±10% compared with initial
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.	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



### 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 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.

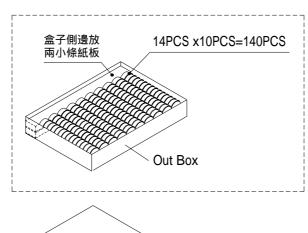
#### TEST CONDITION.

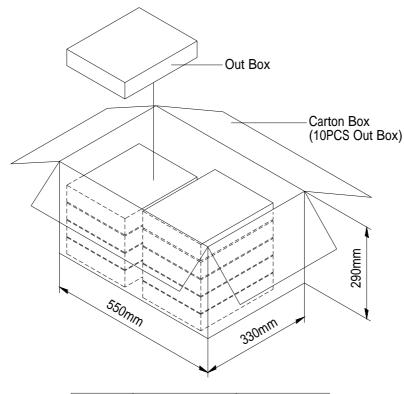
Standard Test Condition a) Temperature: +5 ~ +35 b) Humidity: 45-85% c) Pressure: 860-1060mbar

一般測試條件 a) 溫度: +5~+35 b) 濕度: 45-85% c) 氣壓: 860-1060mbar a) Temperature: +25 ± 2 b) Humidity: 60-70% c) Pressure: 860-1060mbar Judgement Test Condition 爭議時測試條件 a) 温度: +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 100PCSx10=1,400PCS