SPECIFICATION FOR APPROVAL

承 認

Description	:	Piezo Audio Indicator
Kingstate Part No.	:	KPEG253
Customer's Model No.	:	
Specification No.	:	PKD-7589
Number Of The Edition	:	1.1

CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by
JUG 3 4 / 12/29/05	海顶贵	Qin 12/28/05'

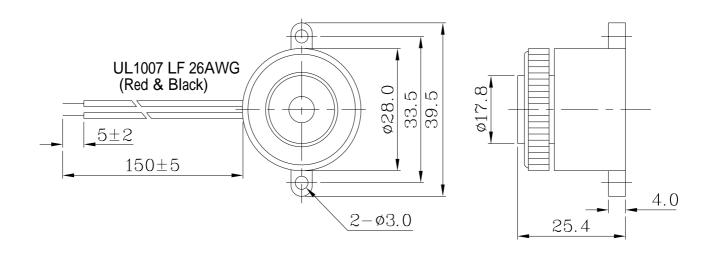
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG253** 此規格書適用於壓電式蜂鳴器, **KPEG253**

B. SPECIFICATION 規格

No.	ltem	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	4~28	
3	Current consumption 消耗電流	mA	MAX 6	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 87	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Slow Pulse(1.2Hz±20%) 慢斷續音	
7	Operating temp. 操作温度		-30 ~ +85	
8	Storage temp. 儲存溫度		-40 ~ +95	
9	Dimension 尺寸	mm	28.0 x H25.4	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	10.2	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Teminal 端 了		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

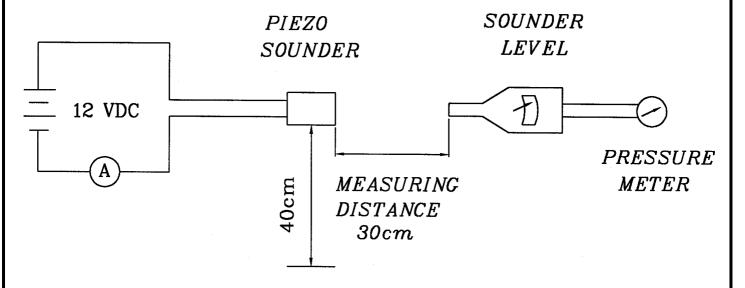


Tol: ± 0.5 Unit: mm

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 2/5 KPEG253

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

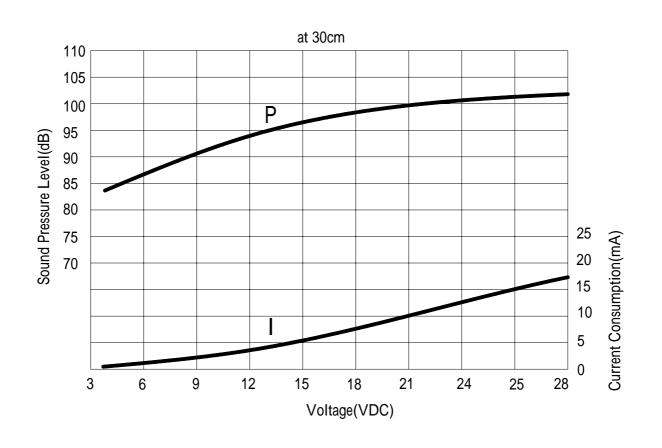
Mic: RION 噪音計 UC30 或同等品

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



F. MECHANICAL CHARACTERISTICS 機械特性

No	Item	Test Condition	Evaluation standard	
1	Solderability 焊鍋附著性 (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.	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		No damage and cutting off. 線材不鬆動,不脫落.	
3	Vibration 振動流珠競	振動週波數 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 ones .The SPL should	
4	Drop test 落下測試	The part only shall be dropped from a height of 75cm onto a 40mm	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 低温測試	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	+25 +25	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. 經則試後,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 分鐘機信 1 分鐘測試	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. 經期試後,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.

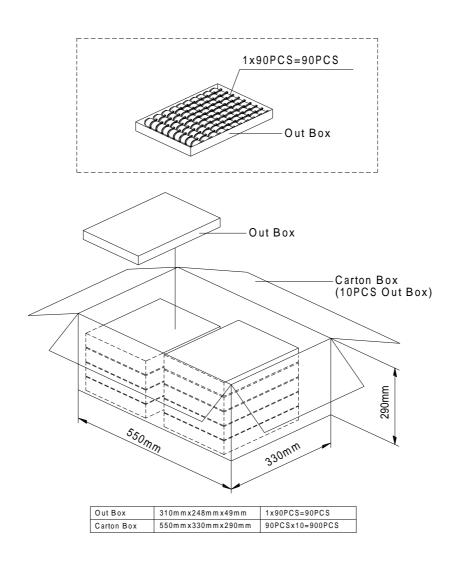
 Standard Test Condition
 : a) Temperature: +5 ~ +35
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

 一般測試條件
 : a) 溫度: +5 ~ +35
 b) 濕度: 45-85%
 c) 氣壓: 860-1060mbar

 Judgement Test Condition
 : a) Temperature: +25 ± 2
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 事議時測試條件
 : a) 溫度: +25 ± 2
 b) 濕度: 60-70%
 c) 氣壓: 860-1060mbar

I. PACKING STANDARD 包裝規格



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