SPECIFICATION FOR APPROVAL

承 認 書

Description	•	Piezo	Audio	Indicator
2030 DUO 	•			

Kingstate Part No. : KPEG270H

Customer's Model No. :

Specification No. : PKD-7671

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE				

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Approved by	Checked by	Issued by
17 Ay 3/58/06	聚美器 2006.3.28	Fei 3/27/06'

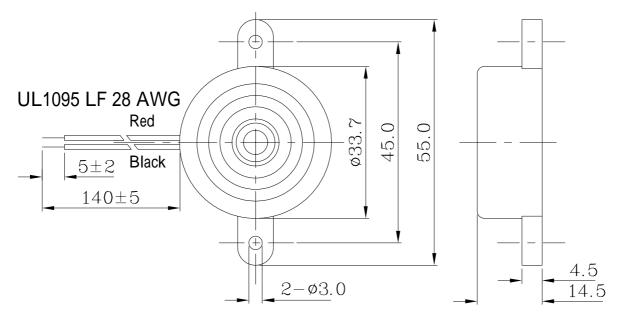
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG270H** 此規格書適用於壓電式蜂鳴器, **KPEG270H**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	3.5 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	8~18	
3	Current consumption 消耗電流	mA	MAX 12	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 96	at 30 cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	
7	Operating temp. 操作溫度		-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

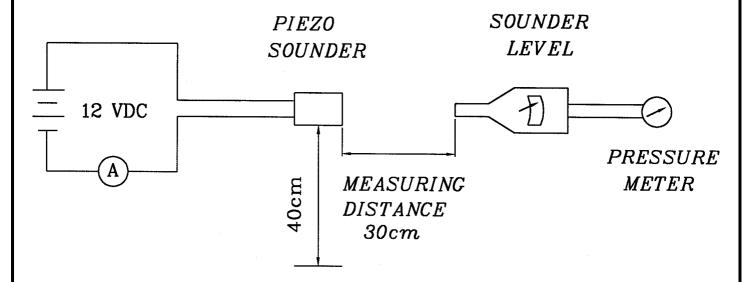


Tol: ± 0.5 Unit: mm

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D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



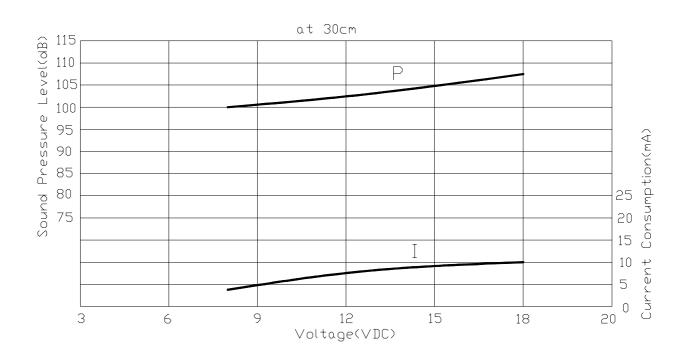
Mic: RION S.P.L meter UC30 or equivalent

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.	ltem	Test Condition	Evaluation standard
1	Solderability 焊錫附著性 (Connector excepted) 端子類不適用此項		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 振動造場		frequency/ current consumption should be in ±10% compared with initial ones .The SPL should
4	Drop test 落下測試	ITHE DAILOHN SHAILDE GIODDEG HOTH A HEIGHLOL/3CH TOHLO A 40HHH	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 高溫測試	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 +25 +25 -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) 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,諧陽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

