SPECIFICATION FOR APPROVAL

承 認

Description	:	Piezo Audio Indicator		
Kingstate Part No.	:	KPEG420		
Customer's Model No.	•	-		
Specification No.	:	PKD-7397		
Number Of The Edition	•	11		

CUSTOMER'S APPROVED SIGNATURE			
4.			

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Approved by	Checked by	Issued by
罗科 3/3	1 8 X V 8/3/6	TIAN / 7/14/05'

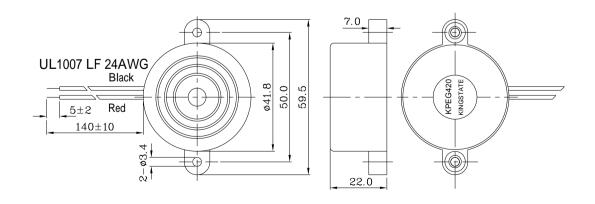
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG420** 此規格書適用於壓電式蜂鳴器, **KPEG420**

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	3~16	
3	Current consumption 消耗電流	mA	MAX 40	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 102	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	41.8 x H22.0	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	17.4	
11	Material 材質		ABS UL-94 1/16" HB (BLACK)	
12	Terminal 端 了		Wire type	See appearance drawing 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規		RoHS	

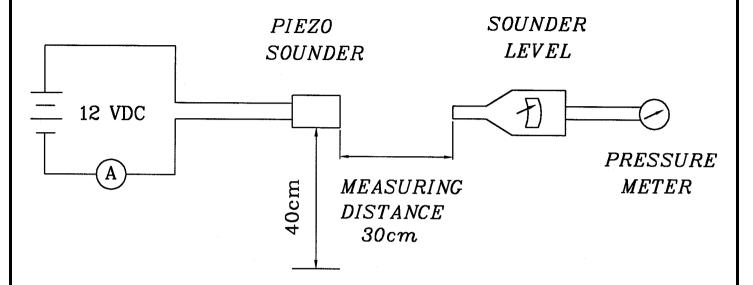
C. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



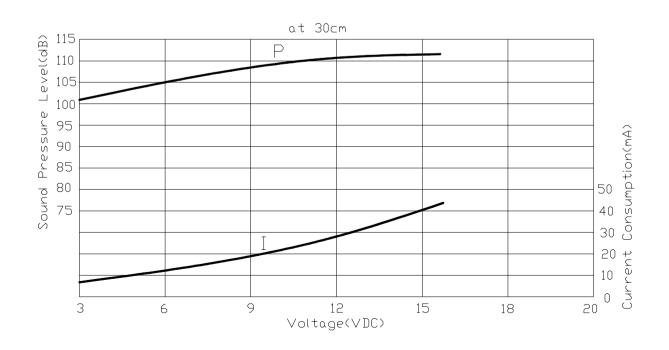
Mic: RION S.P.L meter UC30 or equivalent

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.	ltem	Test Condition	Evaluation standard	
1	Solderability 焊錫州著性 (Connector excepted) 端子類不適用此項	Stripped wires of lead wires are immersed in rosin for 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	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 振動流珠線	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 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.	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 with -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 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.

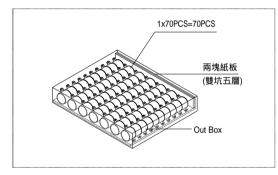
 Standard Test Condition
 : a) Temperature: +5 ~ +35
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

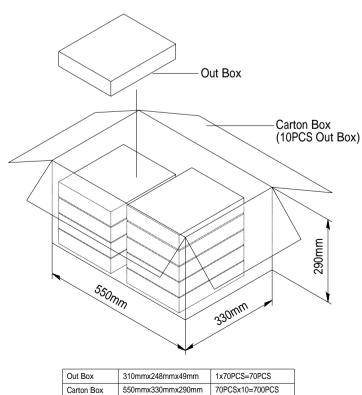
 一般測試條件
 : a) 溫度: +5 ~ +35
 b) 濕度: 45-85%
 c) 氣壓: 860-1060mbar

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

 爭議時期試條件
 : 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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