## SPECIFICATION FOR APPROVAL

承 認 書

Description	:	Piezo Audio Indicator
Kingstate Part No.	:	KPEG750
Customer's Model No.	:	•
Specification No.	:	PKD-7214
Number Of The Edition	:	1.2

CUSTOMER'S APPROVED SIGNATURE			

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Approved by	Checked by	Issued by
1 1 1 3/2/05	陳主华%.	JIR 3/21/05 <sub>;</sub>

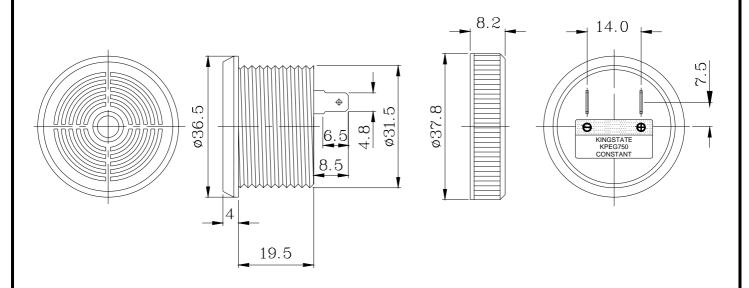
### A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG750** 此規格書適用於壓電式蜂鳴器, **KPEG750** 

### B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	3.6 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	4~28	
3	Current consumption 消耗電流	mA	8Max	at 12VDC
4	Sound pressure level 輸出音壓	dB	80Min	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	at 12VDC
7	Operating temp. 操作溫度		-30 ~ + 85	
8	Storage temp. 儲存溫度		-40 ~ <b>+</b> 95	
9	Dimension 尺寸	mm	37.8 x H23.5	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	18.5	
11	Material 材質		ABS UL-94 1/16" HB (GREY)	
12	Teminal 端子		PIN Type (Plating Au)	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

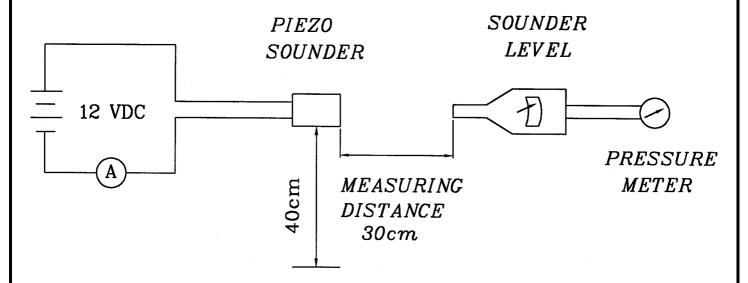


Tol: ± 0.5 Unit: mm

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### D. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖



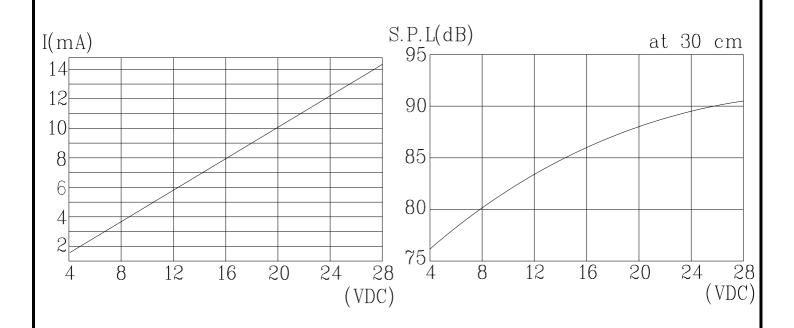
Mic: RION S.P.L meter UC30 or equivalent

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

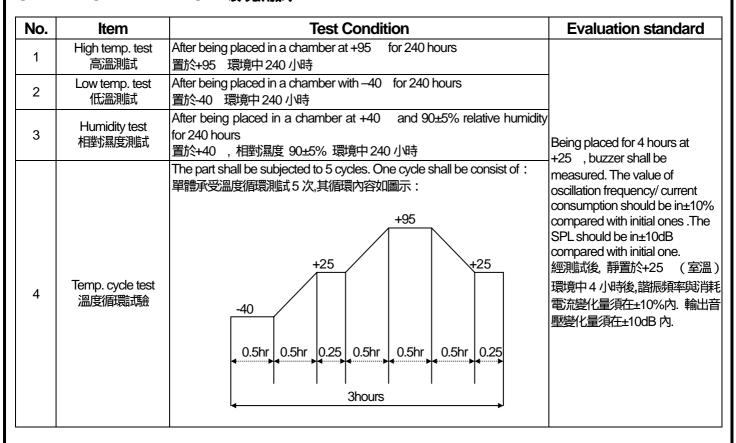
# E. VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS 電壓與音壓/電壓與耗電流之特性



### F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊錫付著性	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±1 seconds. 端子部份浸入松香溶液 5 秒後,再浸入+270±5 溶線數學場槽中 3±1 秒.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal) 浸入端子部份附著焊錫 90%以 上.(末端斷面不算)
2	Soldering Heat Resistance 焊鍋耐熱性	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5 for 3±1 seconds. 距離端子根部 1.5mm 的位置,浸入+260±5 的焊錄槽 3±1 秒.	No interference in operation. 操作上無任何不良.
3	Terminal Strength Pulling 端子強度	The force 10 seconds of 9.8N(1kg) is applied to each terminal in axial direction. 各端子的軸方向施以 9.8N(1kg)的力量 10 秒.	No damage and cutting off. 端子不鬆動,不脫落.
4	Vibration 振動流域	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 ones .The SPL
5	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.	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 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% a) 温度: +5 ~ +35 b) 濕度: 45-85% b) 濕度: 45-85% b) Humidity: 60-70%

c) Pressure : 860-1060mbar

一般測試條件

c) 氣壓: 860-1060mbar 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

