## SPECIFICATION FOR APPROVAL

承 認

Description	:	Piezo Audio Indicator	
Kingstate Part No.	:	KPEG755	
Customer's Model No.	:		
Specification No.	:	PKD-7231	
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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bill the	陈玉华物	JIR 3/19/05'

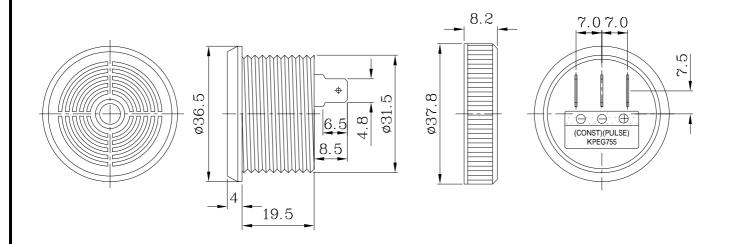
### A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG755** 此規格書適用於壓電式蜂鳴器, **KPEG755** 

### B. SPECIFICATION 規格

No.	Item	Unit	Specification		Condition
1	Resonant frequency 共振頻率	KHz	3.6±0.5		
2	Operating Volt. range 操作電壓範圍	VDC		6~28	
3	Current consumption 消耗電流	mA	MAX 7	MAX 6	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 85	MIN 80	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC		12	
6	Tone 聲音		Continuous 直音	Fast Pulse (3.0Hz+20%) 快斷續音	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	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 (GRAY)		
12	Terminal 端 <del>了</del>		Pin type (Plating Au)		See appearance drawing 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規			ROHS	

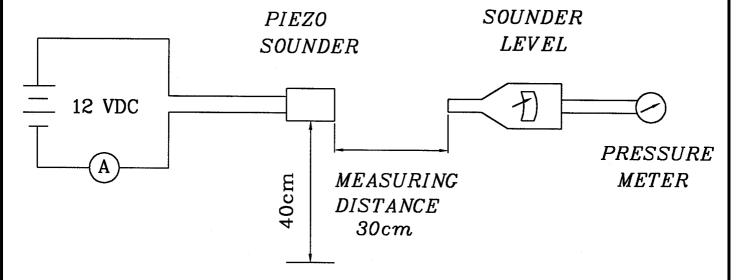
### C. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

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### D. Measuring Method 測量方法

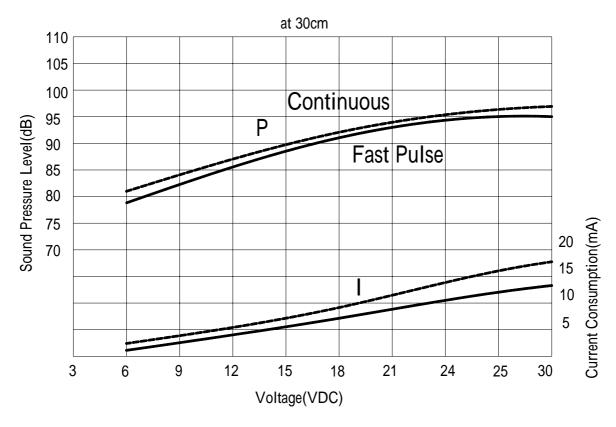


1. S.P.L. Measuring Circuit 音壓測試接線圖

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

Mic: RION 噪音計 UC30 或同等品

# 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 焊錫附著性	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 溶寫數學器槽中 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 焊鍋耐索性	Lead terminal are immersed up to 1.5mm from sounder's body in solider bath of +260±5 for 3±1 seconds. 距離端子根部 1.5mm 的位置,浸入+260±5 的焊錫槽 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 振動症式驗	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.	The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should
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.	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  -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,諧嚴與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 1 rated voltage applied. 在室溫下(+25±2 ),以 1 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) 温度: +5~+35 b) 濕度: 45-85%

c) 氣壓: 860-1060mbar c) Pressure: 860-1060mbar

Judgement Test Condition 爭議時測試條件

a) Temperature: +25 ± 2 b) Humidity: 60-70% a) 温度:+25±2

b) 濕度:60-70%

c) 氣壓: 860-1060mbar

I. PACKING STANDARD 包裝規格

