SPECIFICATION FOR APPROVAL

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書

Description	:	Piezo Audio Transducer
Kingstate Part No.	:	KPEG132
Customer's Model No.	:	
Specification No.	:	PKD-7179
Number Of The Edition	•	1.2

CUSTOMER'S APPROVED SIGNATURE			
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志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP.



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Approved by	Checked by	Issued by
Evanblisos'	四相约	Fei 6/13/05'

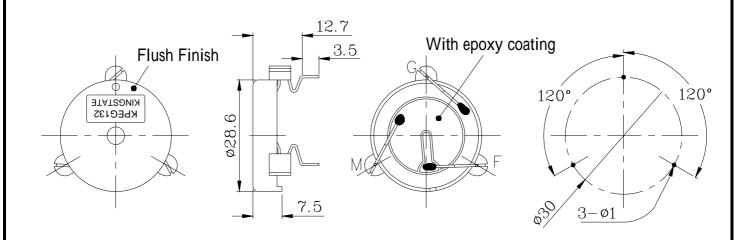
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG132** 此規格書適用於壓電式蜂鳴器, **KPEG132**

B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	3.0 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	3~28	
3	Operating Current 操作電流	mA	MAX 8	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 83	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	28.6 x H7.5	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	3.8	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal 端子		Pin type (鍍化金/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

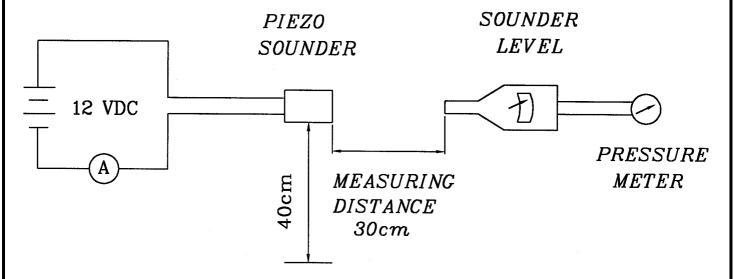


Tol: ± 0.5 Unit: mm

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 2/6 KPEG132

D. MEASURING METHOD 測量方法

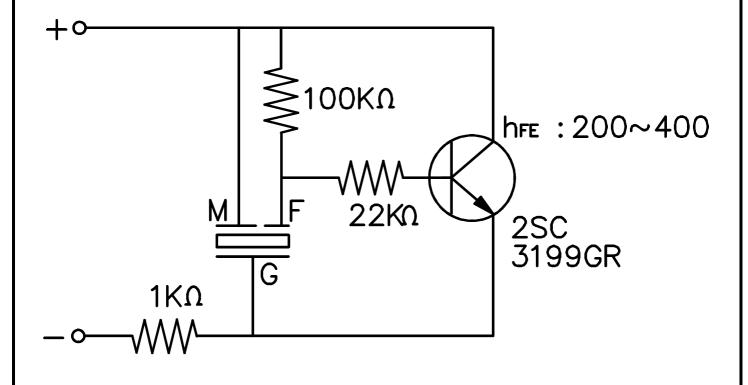
1. S.P.L. Measuring Circuit 音壓測試接線圖



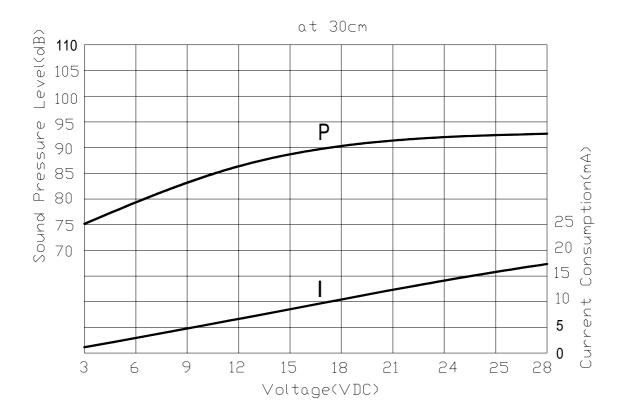
Mic: RION S.P.L. meter UC30 or equivalent

Mic: RION 噪音計 UC30 或同等品

2. The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example) 當前的測試數據是依靠此電氣迴路所量測



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 溶晶數旱鍚槽中 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.(末端繼面不算)
2	Soldering Heat Resistance 焊錫耐熱性	Lead terminal are immersed up to 1.5mm from sounder's body in soilder bath of +300±5 for 3± 0.5 seconds or +260±5 for 10±1 seconds. 距離端子根部 1.5mm 的位置,浸入+300±5 的焊錫槽 3±0.5 秒,或+260±5 的焊錫槽 10±1 秒.	No interference in operation 操作上無任何不良.
3	Terminal Mechanical Strength 端子強度	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction. 各端子的軸方向施以 9.8N (1.0kg)的力量 10 秒.	No damage and cutting off 端子不鬆動,不脫落.
4	Vibration 振動抗球檢	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 be
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.	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 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,諧靜與率與詳電流變化量須在±10%內. 輸出音壓變化量須在±10dB內.	

H. RELIABILITY TEST 信賴性測試

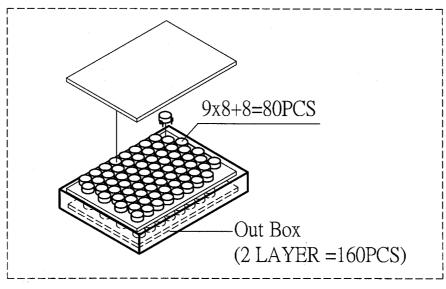
No.	Item	Test condition	Evaluation standard
1	Operating life test 壽命測試	1.Continuous life test 高溫壽命測試(連續) 48 hours continuous operation at +70 with rated voltage applied. 在+70 環境下,以額定電壓連續操作 48 小時 2.Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at 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.

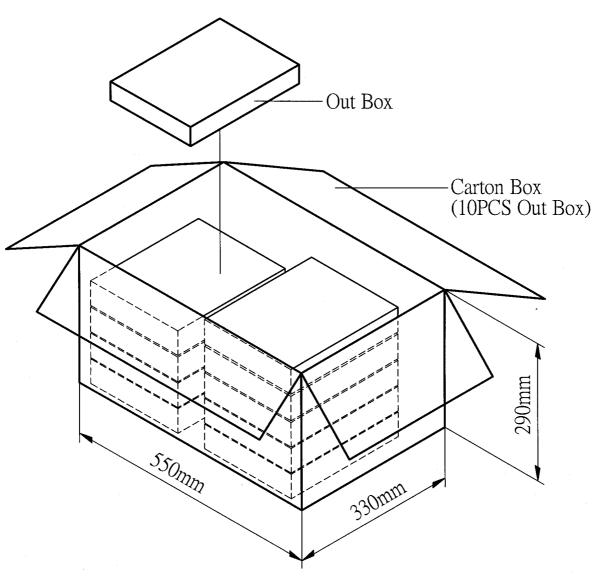
TEST CONDITION.

Standard Test Condition a) Temperature: +5 ~ +35 b) Humidity: 45-85% c) Pressure: 860-1060mbar a) 温度: +5~+35 b) 濕度: 45-85% a) Temperature: +25±2 b) Humidity: 60-70% 一般測試條件 c) 氣壓:860-1060mbar Judgement Test Condition : 爭議時測試條件 : c) Pressure: 860-1060mbar

a) 温度:+25±2 b) 濕度:60-70% c) 氣壓:860-1060mbar







Out Box	310mmx248mmx49mm	2x80PCS=160PCS
Carton Box	550mmx330mmx290mm	160PCSx10=1,600PCS

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