SPECIFICATION FOR APPROVAL

承 認 書

Description : Piezo Audio Transducer

Kingstate Part No. : KPEG130

Customer's Model No. : PKD-7208

Number Of The Edition : 1.2

	CUSTOMER'S APPROVED SIGNATURE				
		- · · ·			

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP.



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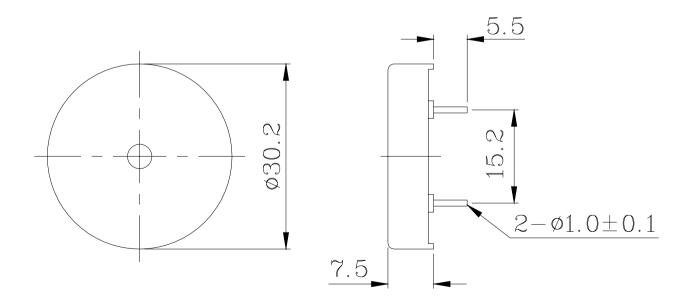
A.SCOPE 範疇

This specification applies piezo audio transducer, **KPEG130** 此規格書適用於壓電式蜂鳴器, **KPEG130**

B. SPECIFICATION 規格

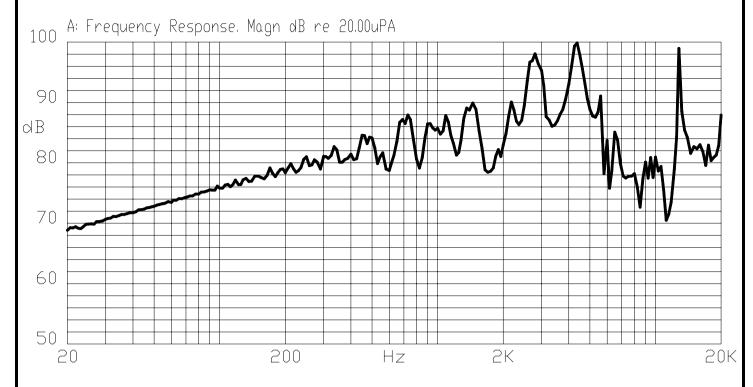
No.	ltem	Unit	Specification	Condition
1	Operating Volt. 操作電壓	Vp-p	MAX 30	
2	Current consumption 消耗電流	mA	MAX 10	at 10Vp-p,square wave,3.0KHz.
3	Sound pressure level 輸出音壓	dB	MIN 90	at 10cm/10Vp-p,square wave,3.0KHz.
4	Electrostatic capacity 靜電容量	pF	18,000 ± 30%	at 1.0KHz/1V
5	Operating temp. 操作温度	°C	-30 ~ + 85	
6	Storage temp. 儲存溫度	°C	-40 ~ + 95	
7	Dimension 尺寸	mm	30.2 x H7.5	See appearance drawing 請參照外觀尺寸圖
8	Weight (MAX) 重量	gram	4.4	
9	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
10	Terminal 端子		Pin type (鍍化金/ Plating Au)	See appearance drawing 請參照外觀尺寸圖
11	Environmental Protection Regulation 環保法規		RoHS	

C. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

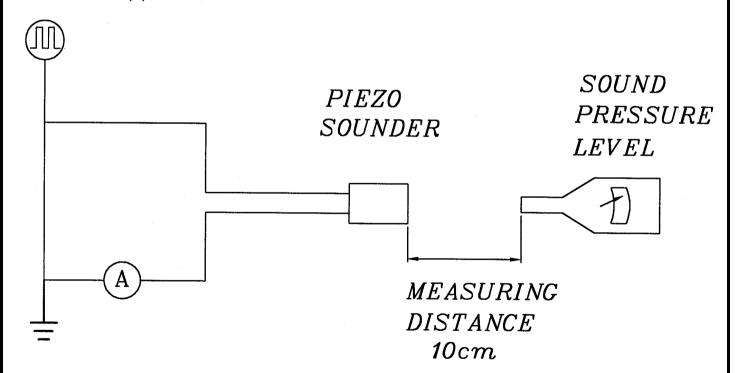
D. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



E. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖 Input Signal: 10Vp-p,3.0kHz, Square Wave

輸入信號: 10Vp-p,3.0kHz,方波



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

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 溶融學場槽中 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 solder bath of +260±5 for 3±1 seconds. 距離端子根部 1.5mm 的位置,浸入+260±5 的焊緣槽 3±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 振動造構織	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.Z 3 個方向,各 2 小時.	
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.	

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 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 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.
4	Temp. cycle test 溫度循環試驗	單體承受溫度循環測試 5 次,其循環內容如圖示: +95 +25	

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. 經則試後,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: $+5 \sim +35^{\circ}$ C b) Humidity: 45-85%b) 濕度:45-85%

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

一般測試條件 Judgement Test Condition a) 温度:+5~+35℃

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

c) Pressure : 860-1060mbar

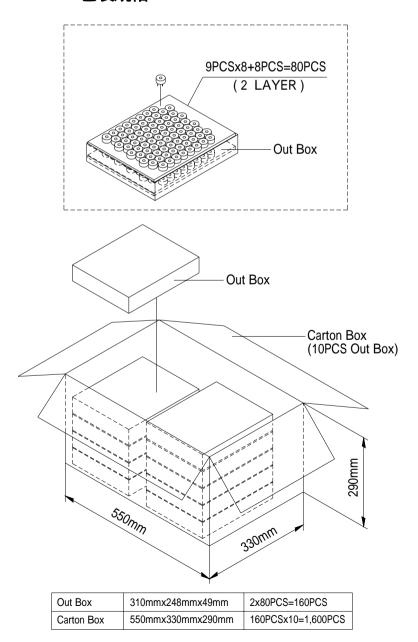
爭議時測試條件

a) 温度:+25±2℃

b) 濕度:60-70%

c) 氣壓:860-1060mbar

I. PACKING STANDARD 包裝規格



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