SPECIFICATION FOR APPROVAL

承

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書

Description : Piezo Audio Transducer

Kingstate Part No. : KPEG181

Customer's Model No. : PKD-7370

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE			
		ı:	

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



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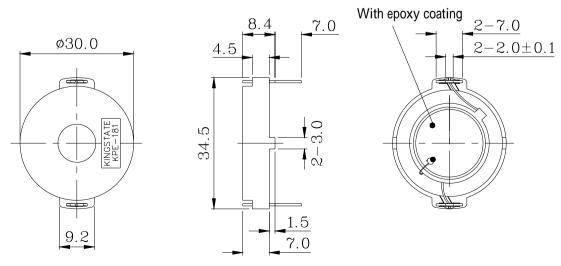
A.SCOPE 範疇

This specification applies piezo audio transducer, **KPEG181** 此規格書適用於壓電式蜂鳴器, **KPEG181**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification		Condition
1	Operating Frequency 操作頻率	KHz	2.0 ~ 6.0		
2	Operating Volt. 操作電壓	V p-p	Sine Wave 85	Square Wave 50	Continuous 連續
3	Operating Volt. 操作電壓	V p-p	Sine Wave 100	Square Wave 60	Intermittent 間歇
4	Sound pressure level 輸出音壓	dB	MIN	N 85	at 3m/18Vp-p Square wave 5.5KHz
5	Sound pressure level 輸出音壓	dB	MIN	182	at 1m/2.832Vrms Sine wave 5.5KHz
6	Electrostatic capacity 靜電容量	pF	200,000 ± 30%		at 120Hz/1V
7	Operating temp. 操作温度	∘C	-40 ~ +105		
8	Storage temp. 儲存溫度	∘C	-40 ~ +105		
9	Dimension 尺寸	mm	30.0 x H7.0		See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	11	.5	
11	Material 材質		PBT+15%GLASS UL94V-0 (BLACK)		
12	Terminal 端子		Pin type (鍍全錫/Plating Sn)		See appearance drawing 請參照外觀尺寸圖
13	Environmental Protection Regulation 環保法規		Ro	bHS	
14	Storage life 保存期限	month	6		6 months preservation at room temp. (25±3), Humidity40% 在室溫下 25±3,濕度 40%以下可保存 6 個月.

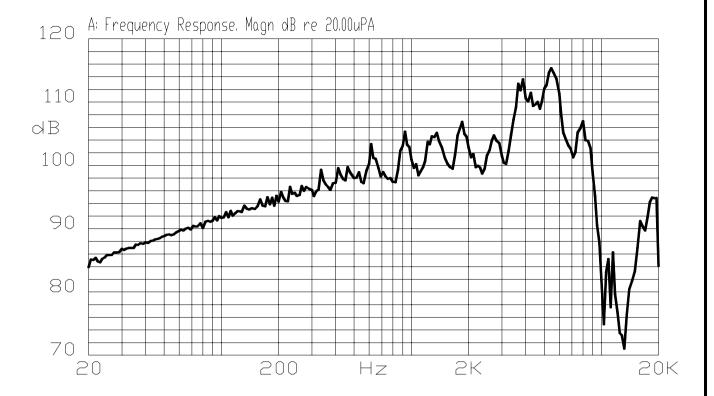
C. APPEARANCE DRAWING 外觀尺寸圖



Tol : ± 0.5 Unit : mm

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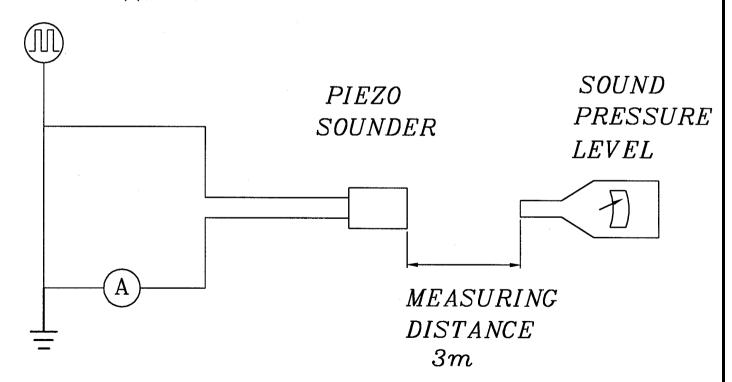
D. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



E. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖 Input Signal: 18Vp-p,5.5kHz, Square Wave

輸入信號: 18Vp-p,5.5kHz,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

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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 溶融焊緣槽中 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		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 振動店式競	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.	frequency/ current consumption should be in 10% compared with initial ones .The SPL should be
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 +105 for 240 hours 置於+105 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	單體承受溫度循環測試 5 次,其循環內容如圖示: +105 +25	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 +90 with rated voltage applied. 在+90 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°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

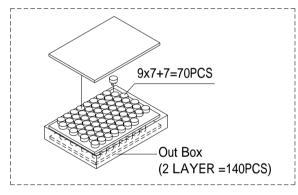
爭議時測試條件

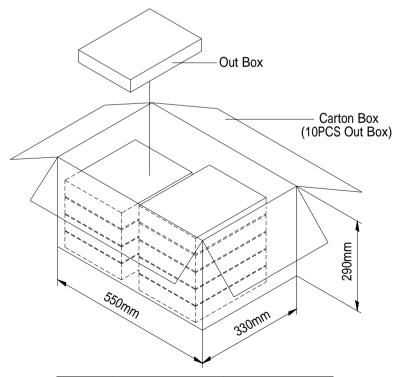
a) 温度:+25±2℃

b) 濕度:60-70%

c) 氣壓:860-1060mbar

I. PACKING STANDARD 包裝規格





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