SPECIFICATION FOR APPROVAL

承

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書

Description	0	Piezo Audio Indicator
Kingstate Part No.	9	KPEG250
Customer's Model No.	9	
Specification No.	9	PKD-7325
Number Of The Edition	g g	1.1

CUSTO	CUSTOMER'S APPROVED SIGNATURE			

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



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Approved by	Checked by	issued by
Evan6/00	强制 6/6/05"	Fei 6/03/05'

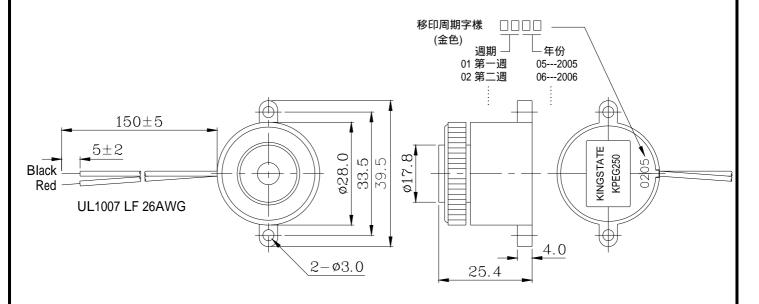
A.SCOPE 範疇

This specification applies piezo audio transducer, **KPEG250** 此規格書適用於壓電式蜂鳴器, **KPEG250**

B. SPECIFICATION 規格

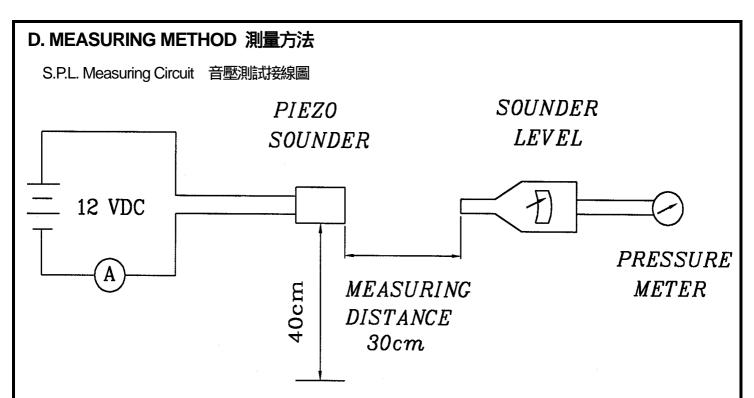
No.	Item	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	3.5 ± 0.5	
2	Operating` Volt. range 操作電壓範圍	VDC	3~28	
3	Operating Current 操作電流	mA	MAX 6	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 85	at 30 cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	at 12VDC
7	Operating temp. 操作溫度	°C	-30 ~ + 85	
8	Storage temp. 儲存溫度	°C	-40 ~ + 95	
9	Dimension 尺寸	mm	28.0 x H25.4	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	9.5	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal 端子		Wire type	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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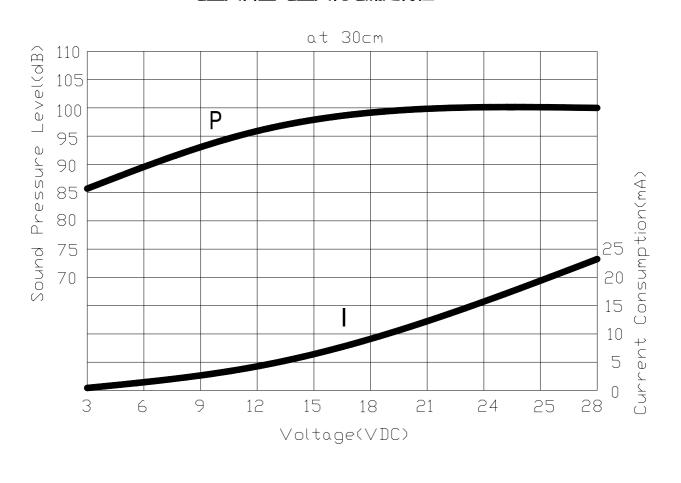


Mic: RION S.P.L meter UC30 or equivalent

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



志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 3/5 KPEG250

F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard	
1	Solderability 焊錫附著性 (Connector excepted) (端子類不適用此項)	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5 溶射导線槽 3±0.5 秒.	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊錫 90% 以上.(末端斷面不算)	
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire: Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 雙線材水平方向施以3.0N(0.306kg)的力量,垂直方向施以2.0N(0.204kg)的力量,各30秒.	No damage and cutting off. 線材不鬆動,不脫落.	
3	Vibration 振動流球競	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	
4	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.	ones .The SPL 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

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 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	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.

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 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

一般測試條件

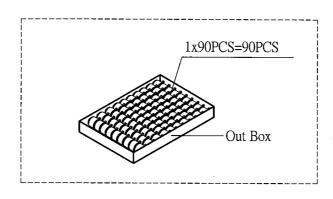
Judgement Test Condition 爭議時測試條件

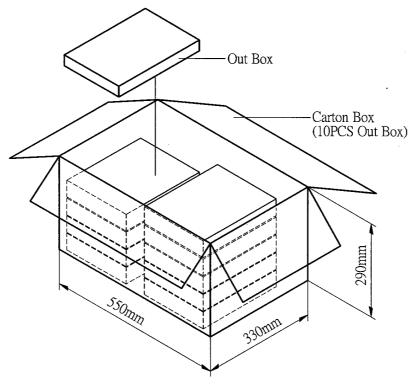
a) 溫度: +25±2℃ b) 濕度: 60-70%

a) Temperature : $+5 \sim +35$ °C b) Humidity : 45-85% c) Pressure : 860-1060mbar

a) 温度: +5~+35°C b) 濕度: 45-85% c) 氣壓: 860-1060mbar a) Temperature: +25±2°C b) Humidity: 60-70% c) Pressure: 860-1060mbar c) 氣壓: 860-1060mbar

I. PACKING STANDARD 包裝規格





Out Box	310mmx248mmx49mm	1x90PCS=90PCS
Carton Box	550mmx330mmx290mm	90PCSx10=900PCS