SPECIFICATION FOR APPROVAL

承認書

Description	9	Piezo Audio Indicator
Kingstate Part No.	9	KPEG350A
Customer's Model No.	9	
Specification No.	9	PKD-7251
Number Of The Edition	9	11

CUSTOMER'S APPROVED SIGNATURE			

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

KINGSTATE (

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Approved by	Checked by	Issued by
图 \$38/10/05	FOR ME/a	Fei 7/07/05'

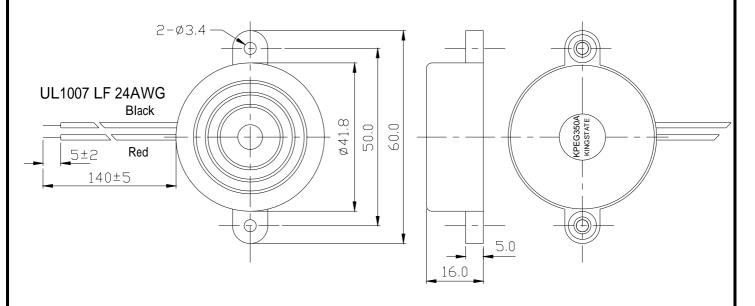
A.SCOPE 範疇

This specification applies piezo audio transducer, **KPEG350A** 此規格書適用於壓電式蜂鳴器, **KPEG350A**

B. SPECIFICATION 規格

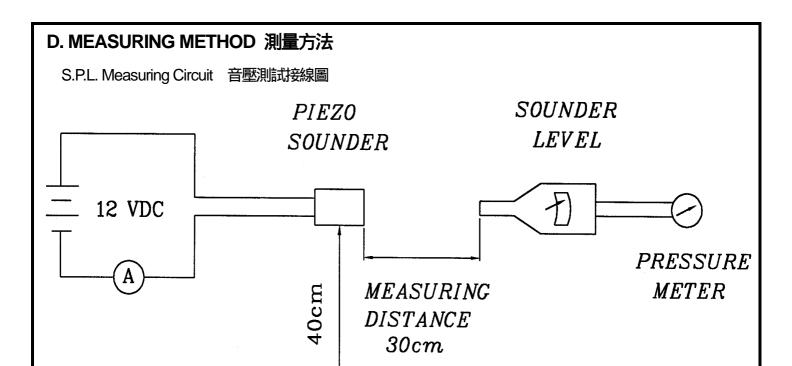
No.	Item	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	2.8 ± 0.5	
2	Operating` Volt. range 操作電壓範圍	VDC	3~20	
3	Operating Current 操作電流	mA	MAX 12	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 92	at 30 cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	at 12VDC
7	Operating temp. 操作温度	°C	-30 ~ + 85	
8	Storage temp. 儲存溫度	°C	-40 ~ + 95	
9	Dimension 尺寸	mm	41.8 x H16.0	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	14.6	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Teminal 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



Unit: mm Tol: ±0.5

志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 2/5 KPEG350A



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. MECHANICAL CHARACTERISTICS 機械特性

No	Item	Test Condition	Evaluation standard
1	(Connector evented)		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	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 振動症状命	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.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 be in ±10dB compared with
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.	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.

F. 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 低温測試	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 溫度循環描驗	單體承受溫度循環測試 5 次,其循環內容如圖示: +95 +25 +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. RELIABILITY TEST 信賴性測試

No.	ltem	Test condition	Evaluation standard
1	Operating life test 壽命測試	1.Continuous life test 高溫壽命測試(連續) 48hours 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.

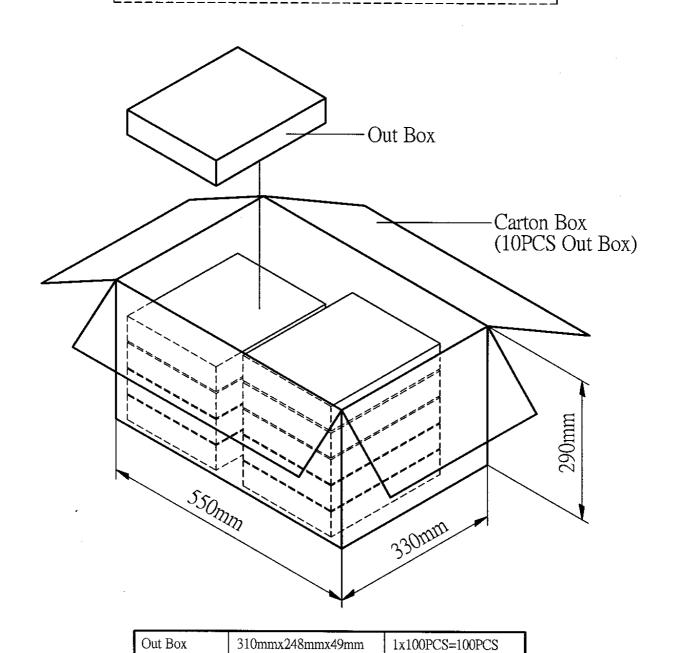
 Standard Test Condition
 : a) Temperature: +5 ~ +35℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

 一般測試條件
 : a) 溫度: +5 ~ +35℃
 b) 濕度: 45-85%
 c) 氣壓: 860-1060mbar

 Judgement Test Condition
 : a) Temperature: +25 ± 2℃
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 事議時測試條件
 : a) 溫度: +25 ± 2℃
 b) 濕度: 60-70%
 c) 氣壓: 860-1060mbar

H. PACKING STANDARD 包裝規格 1x100PCS=100PCS Out Box



志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP 5/5	KPEG350A

100PCSx10=1000PCS

550mmx330mmx290mm

Carton Box