SPECIFICATION FOR APPROVAL

承認

Description	:	Piezo Audio Transducer
Kingstate Part No.	:	KPEG827
Customer's Model No.	:	
Specification No.	:	PKD-7250
Number Of The Edition	:	1.1

CUSTON	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	lssued by
6 ig my 1/30=5	陈玉华330	JIR 3/28/05'

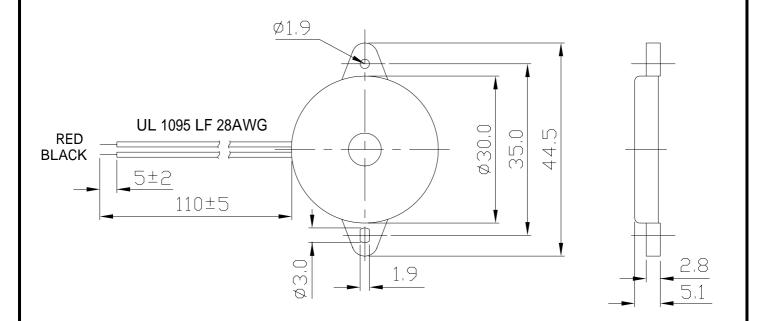
A. SCOPE 範疇

This specification applies piezo audio transducer, **KPEG827** 此規格書適用於壓電式蜂鳴器, **KPEG827**

B. SPECIFICATION 規格

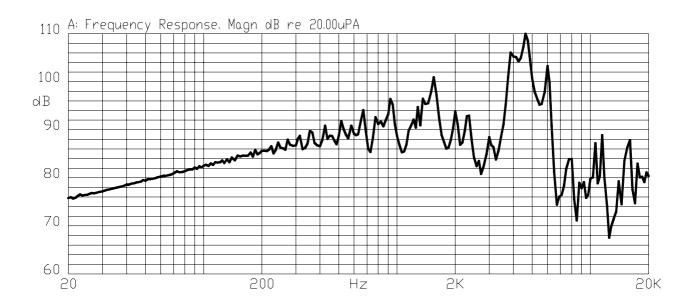
No.	Item	Unit	Specification	Condition
1	Operating Volt. 操作電壓	Vp-p	MAX 50	
2	Current consumption 消耗電流	mA	MAX 11	at 10Vp-p,square wave,4.5KHz.
3	Sound pressure level 輸出音壓	dB	MIN 97	at 10cm/10Vp-p,square wave,4.5KHz.
4	Electrostatic capacity 靜電容量	pF	18,000 ± 30%	at 1KHz/1V
5	Operating temp. 操作溫度		-30 ~ +85	
6	Storage temp. 儲存溫度		-40 ~ +95	
7	Dimension 尺寸	mm	30.0 x H5.1	See appearance drawing 請參照外觀尺寸圖
8	Weight (MAX) 重量	gram	4.7	
9	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
10	Terminal 端子		Wire type	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



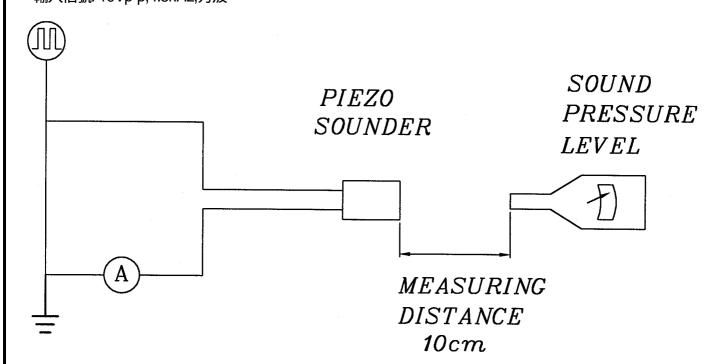
Tol: ± 0.5 Unit: mm

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,4.5kHz, Square Wave 輸入信號: 10Vp-p,4.5kHz,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

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 溶訊數學計劃 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 振動結構檢	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. 振動過波數 10 55HZ、全振幅 1.5mm 於 X.Y.Z 3 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 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.
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.	

G. ENVIRONMENT TEST 環境測試

No.	Item	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 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

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

一般測試條件 Judgment Test Condition

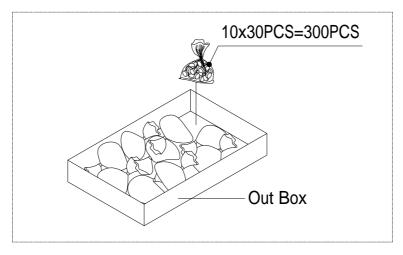
 一般測試條件
 :
 a) 温度: +5 ~ +35
 b) 濕度: 45-85%

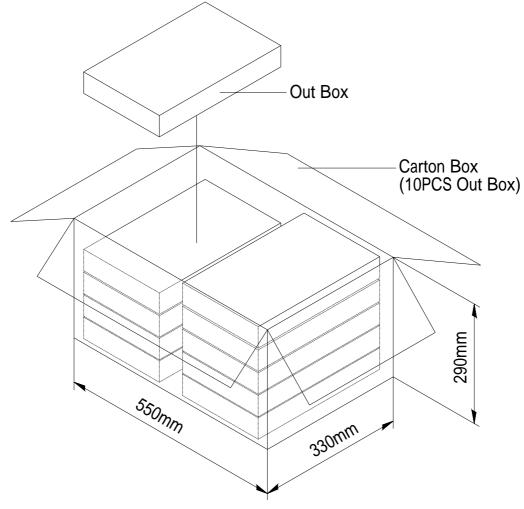
 nt Test Condition
 :
 a) Temperature: +25 ± 2
 b) Humidity: 60-70%

 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





Out Box	310mmx248mmx49mm	1x300PCS=300PCS
Carton Box	550mmx330mmx290mm	300PCSx10=3000PCS