SPECIFICATION FOR APPROVAL

承

認

書

Description	:	Piezo Audio Indicator
Kingstate Part No.	:	KPEG276
Customer's Model No.	:	
Specification No.	:	PKD-7415
Number Of The Edition	•	11

CUSTOMER'S APPROVED SIGNATURE		
	-	



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Approved by	Checked by	Issued by
Jones 20 /2/15	超级207.29	TIAN 7/19/05'

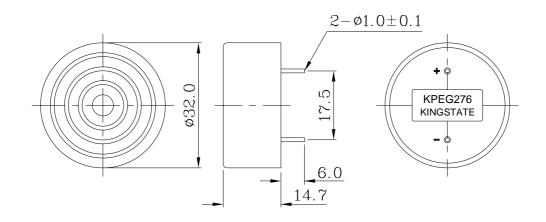
A. SCOPE 範疇

This specification applies piezo audio indicator, **KPEG276** 此規格書適用於壓電式蜂鳴器,**KPEG276**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Resonant frequency 共振頻率	KHz	2.7 ± 0.5	
2	Operating Volt. range 操作電壓範圍	VDC	3~28	
3	Current consumption 消耗電流	mA	MAX 6	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN 79	at 30cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Continuous 直音	
7	Operating temp. 操作温度		-30 ~ + 85	
8	Storage temp. 儲存溫度		-40 ~ + 95	
9	Dimension 尺寸	mm	32.0 x H14.7	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	7.0	
11	Material 材質		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Teminal 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		RoHS	
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

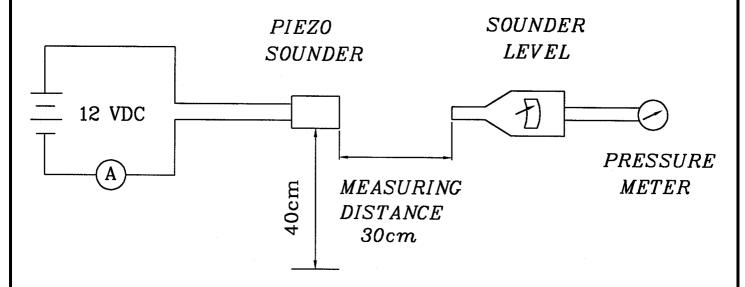


Tol: ± 0.5 Unit: mm

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D. MEASURING METHOD 測量方法

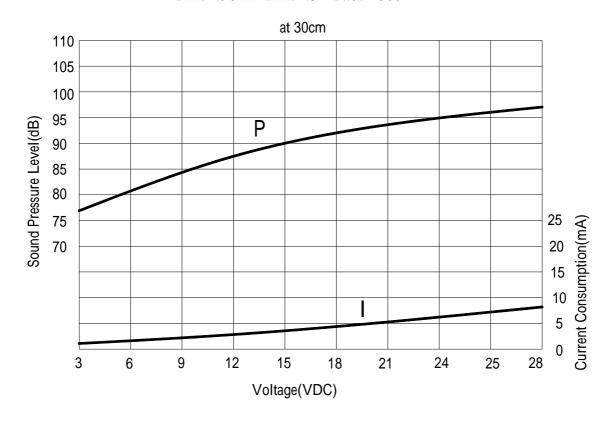
S.P.L. Measuring Circuit 音壓測試接線圖



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

Mic: RION 噪音計 UC30 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



F. MECHANICAL CHARACTERISTICS 機械特性

No.	ltem	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 soilder bath of +300±5 for 3± 0.5 seconds or +260±5 for 10±1 seconds. 距離完成部 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 振動測試	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
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.	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 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.

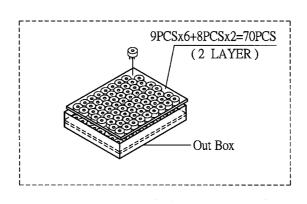
H. RELIABILITY TEST 信賴性測試

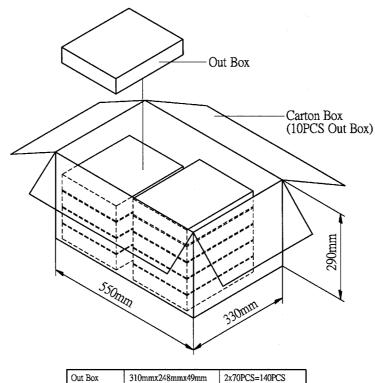
No.	Item	Test condition	Evaluation standard
1	Operating life test 壽命測試	1.Continuous life test 高溫壽命測試(連續) 48 hours continuous operation at +70 with rated voltage applied. 在+70 環境下,以額定電壓連續操作 48 小時. 2.Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at 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,諧辰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 - 般測試條件 : a) 温度: +5~+35 b) 濕度: 45-85% c) 氣壓: 860-1060mbar c) 如極: 860-1060mbar b) Humidity: 60-70% c) 与Pressure: 860-1060mbar b) 温度: +25 ± 2 b) 濕度: 60-70% c) 每厭: 860-1060mbar c) 每既: 860-1060mbar c) 每年: 860-1060m

I. PACKING STANDARD 包裝規格





550mmx330mmx290mm

Carton Box

140PCSx10=1400PCS