SPECIFICATION FOR APPROVAL

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書

Description : Piezo Siren

Kingstate Part No. : KPEG1600

Customer's Model No. :

Specification No. : PKD-7607

Number Of The Edition : 1.2

С	CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by	
Jeras 3 24.6	双类器;	Qin 03/2306'	

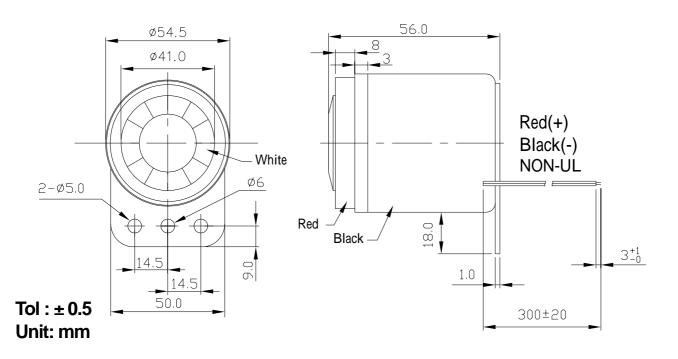
A. SCOPE 範疇

This specification applies piezo audio siren, **KPEG1600** 此規格書適用於壓電式蜂鳴器, **KPEG1600**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Operating Frequency 操作頻率	KHz	2~4	
2	Operating Volt. range 操作電壓範圍	VDC	6~16	
3	Current consumption 消耗電流	mA	MAX. 260	at 12VDC
4	Sound pressure level 輸出音壓	dB	MIN. 105	at 100 cm/12VDC
5	Rated Voltage 額定電壓	VDC	12	
6	Tone 聲音		Siren 警報音	
7	Operating temp. 操作温度		-20 ~ + 60	
8	Storage temp. 儲存溫度		-30 ~ + 70	
9	Dimension 尺寸	mm	54.5 x H56.0	See appearance drawing 請參照外觀尺寸圖
10	Weight (MAX) 重量	gram	91.6	
11	Material 材質		ABS UL-94 1/16" HB	
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	

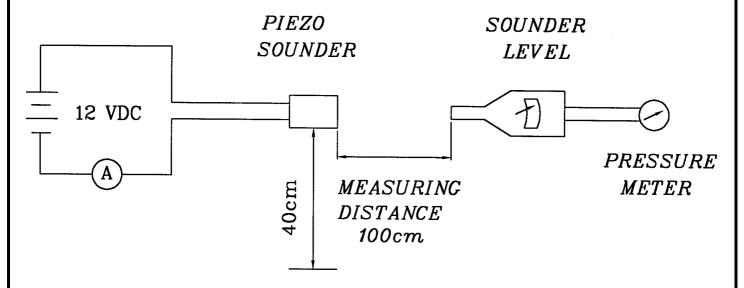
C. APPEARANCE DRAWING 外觀尺寸圖



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D. MEASURING METHOD 測量方法

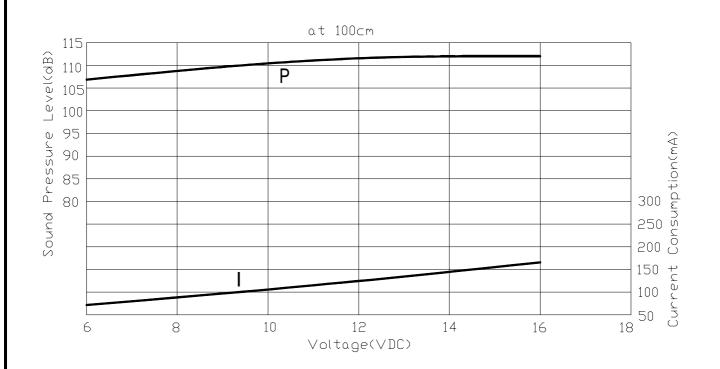
1. S.P.L. Measuring Circuit 音壓測試接線圖



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.	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 溶融學場槽 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.(未消蓋面不算)
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 interference in operation. 操作上無任何不良.
3	Vibration 振動流球魚	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
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.	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 + 70 for 240 hours 置於+ 70 環境中 240 小時	
2	Low temp. test 低溫測試	After being placed in a chamber with -30 for 240 hours 置於-30 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: +70 -30 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) 10 minutes continuous operation at +45 with rated voltage applied. 在+45 環境下,以額定電壓連續操作 10 分鐘. 2.Intermittent life test 室溫壽命測試(間歇) A duty cycle of 1 minute on, 0.5 minutes off, a minimum of 960 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 0.5 分鐘,測試 960 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. 經則試後,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.

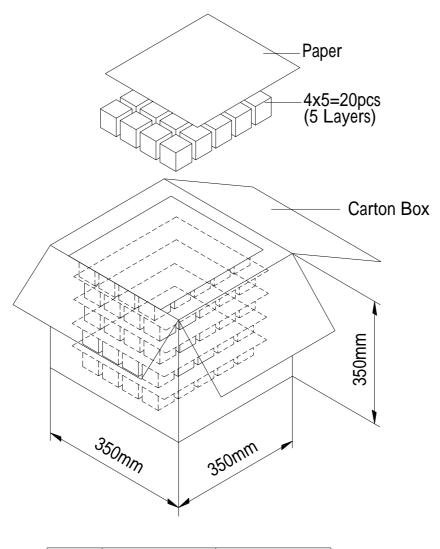
Standard Test Condition 一般測試條件

a) Temperature: +5 ~ +35 b) Humidity: 45-85% c) Pressure: 860-1060mbar a) 温度: +5~+35 b) 濕度: 45-85% c) 氣壓: 860-1060mbar

a) Temperature: +25 ± 2 b) Humidity: 60-70% c) Pressure: 860-1060mbar a) 温度: +25 ± 2 b) 濕度: 60-70% c) 氣壓: 860-1060mbar

Judgment Test Condition 爭議時測試條件

I. PACKING STANDARD 包裝規格



Carton Box 350mmx350mmx350mm 20PCSx5 Layers=100PCS