SPECIFICATION FOR APPROVAL

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書

Description	:	Piezo Audio	Transducer

Kingstate Part No. : KMTG1261

Customer's Model No. :

Specification No. : PKD-7173

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE		

KINGSTATE (

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Approved by	Checked by	Issued by	
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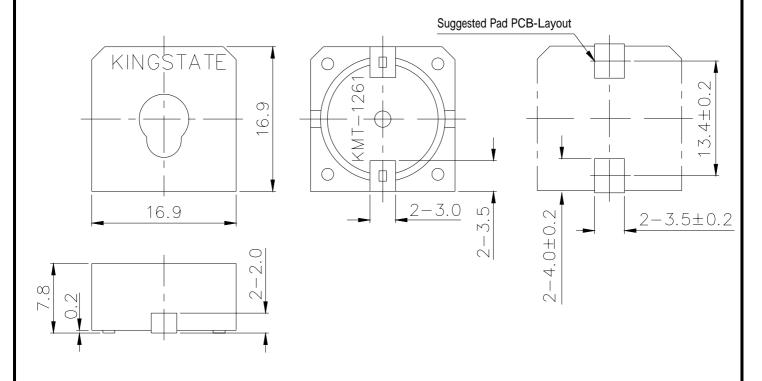
A. SCOPE 範疇

This specification applies piezo audio transducer, **KMTG1261** 此規格書適用於壓電式蜂鳴器, **KMTG1261**

B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Operating Volt. 操作電壓	Vp-p	MAX 20	
2	Current consumption 消耗電流	mA	MAX 10	at 10Vp-p,square wave,5.0KHz.
3	Sound pressure level 輸出音壓	dB	MIN 88	at 10cm/10Vp-p,square wave,5.0KHz.
4	Electrostatic capacity 靜電容量	pF	15,000 ± 30%	at 1KHz/1V
5	Operating temp. 操作溫度		-30 ~ +70	
6	Storage temp. 儲存溫度		-40 ~ +80	
7	Dimension 尺寸	mm	L16.9xW16.9xH7.8	See appearance drawing 請參照外觀尺寸圖
8	Weight (MAX) 重量	gram	2.6	
9	Material 材質		PPS UL-94 V-0 (BLACK)	
10	Terminal 端子		SMD type	See appearance drawing 請參照外觀尺寸圖
11	Environmental Protection Regulation 環保法規		ROHS	

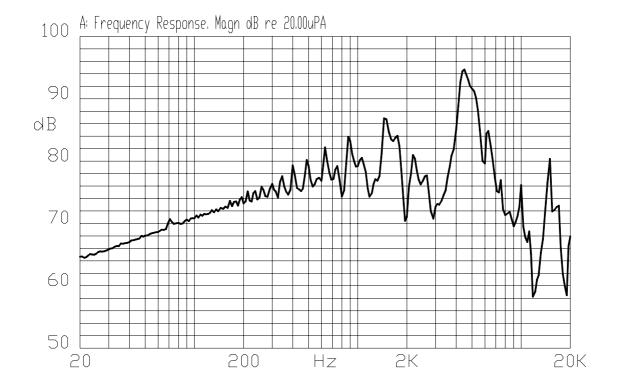
C. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

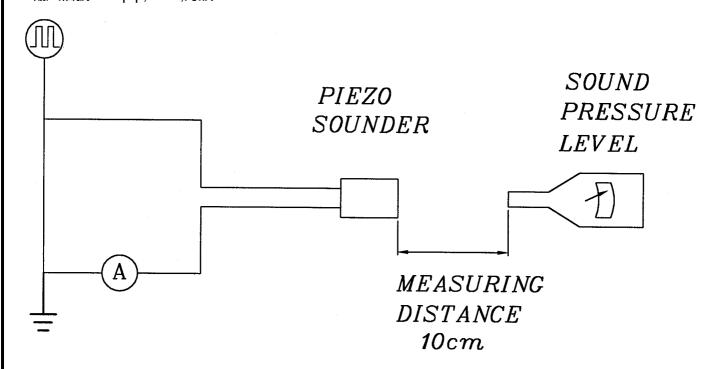
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D. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



E. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖 Input Signal: 10Vp-p,5kHz, Square Wave 輸入信號: 10Vp-p,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 焊錫付著性	瑞子直於錫賞內,錫賞溫度:+260±5 . 焊接等間:3±1 秒.	95% surface of lead pads must be covered with fresh solder 錫膏須覆蓋端子上方 95%	
2	Soldering Heat Resistance 焊錫耐熱性	Lead terminal are immersed in soldering bath of +360±10 C for 3±0.5 second. 端子部份浸入以+360±10 焊鍚槽中3±0.5秒	No interference in operation 操作上無任何不良	
3		2 lead pads shall be soldered on the pc board, and the force (10n) shall be applied behind the part for 10±1 seconds. 將 2 個端子焊在 PC 板上後,對單體施以 10n 拉力 10±1 秒	No damage and cutting off 端子不鬆動,不脫落	
4	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. 振動週波數 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 ones .The SPL should	
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.	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 +80 for 240 hours 置於+80 環境中 72 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 72 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 72 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: +80 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)	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

一般測試條件

c) 氣壓: 860-1060mbar

Judgement Test Condition

: a) 温度: +5~+35 b) 濕度: 45-85% : a) Temperature: +25±2 b) Humidity: 60-70%

c) Pressure: 860-1060mbar

爭議時測試條件

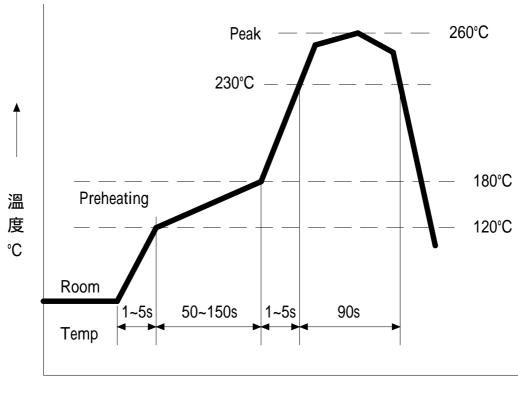
: a) 温度:+25±2

b) 濕度:60-70%

c) 氣壓: 860-1060mbar

I. Recommended Temperature Profile For Reflow Oven 建議迴焊爐溫度曲線

Temperature Profile



J. PACKING STANDARD 包裝規格

