SPECIFICATION FOR APPROVAL

承 認 書

Description	:	Piezo Audio Transducer	
Kingstate Part No.	:	KPEG1600NC	
Customer's Model No.	:		
Specification No.	:	PKD-7622	
Number Of The Edition	:	1.2	

CU	CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by
Jan & F. 526-6.	121 and 1000 2006. J. 26	Fei 5/26/06'

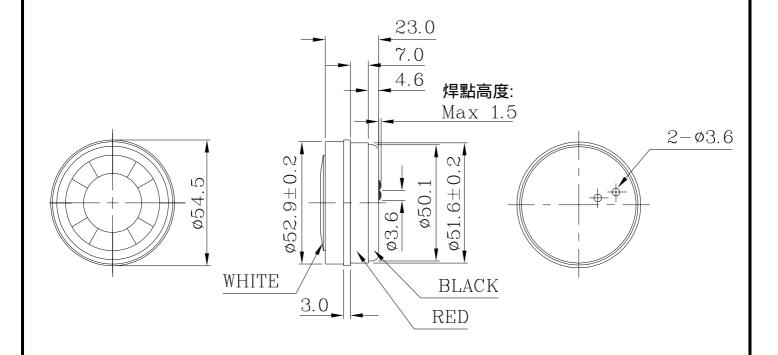
A. SCOPE 範疇

This specification applies piezo audio transducer, **KPEG1600NC** 此規格書適用於壓電式蜂鳴器, **KPEG1600NC**

B. SPECIFICATION 規格

No.	ltem	Unit	Specification	Condition
1	Operating Volt. 操作電壓	Vp-p	MAX. 150	
2	Current consumption 消耗電流	mA	MAX. 30	at 90Vp-p,sine wave,3.5KHz.
3	Sound pressure level 輸出音壓	dB	MIN. 95	at 100cm/90Vp-p,sine wave,3.5KHz.
4	Electrostatic capacity 靜電容量	pF	30,000 ± 30%	at 1KHz/0.25V
5	Operating temp. 操作溫度		-20 ~ +60	
6	Storage temp. 儲存溫度		-30 ~ +70	
7	Dimension 尺寸	mm	54.5 x H23.0	See appearance drawing 請參照外觀尺寸圖
8	Weight (MAX) 重量	gram	35.0	
9	Material 材質		ABS UL-94 1/16" HB	
10	Terminal 端子		Terminal	See appearance drawing 請參照外觀尺寸圖
11	Environmental Protection Regulation 環保法規		RoHS	

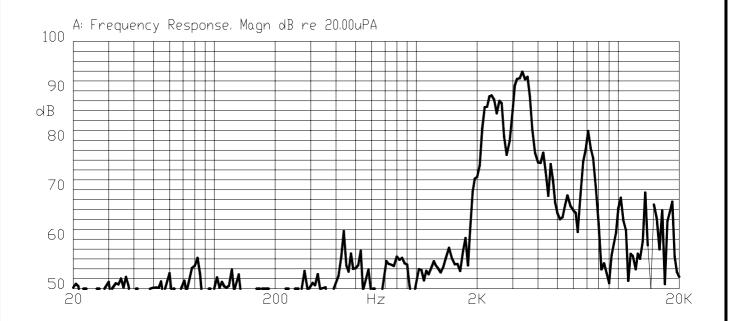
C. APPEARANCE DRAWING 外觀尺寸圖



Tol: ± 0.5 Unit: mm

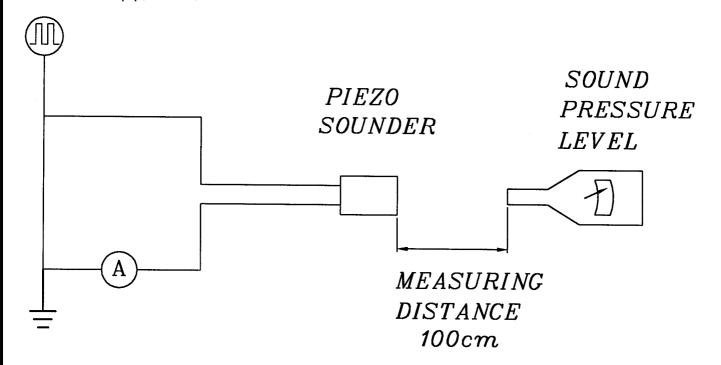
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D. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



E. MEASURING METHOD 測量方法

S.P.L. Measuring Circuit 音壓測試接線圖 Input Signal: 90Vp-p, 3.5kHz, Sine Wave 輸入信號: 90Vp-p, 3.5kHz,正弦波



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

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F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	Vibration 振動造式競	振動過波數 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
2	Drop test 落下測試		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 at -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) 48 hours continuous operation at +45 with rated voltage applied. 在+45 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

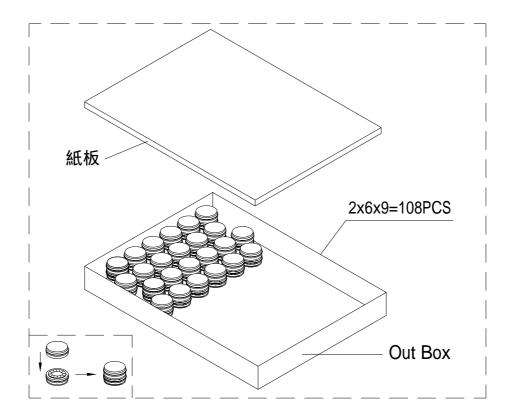
 一般則試條件
 : a) 溫度: +5 ~ +35
 b) 濕度: 45-85%
 c) 氣壓: 860-1060mbar

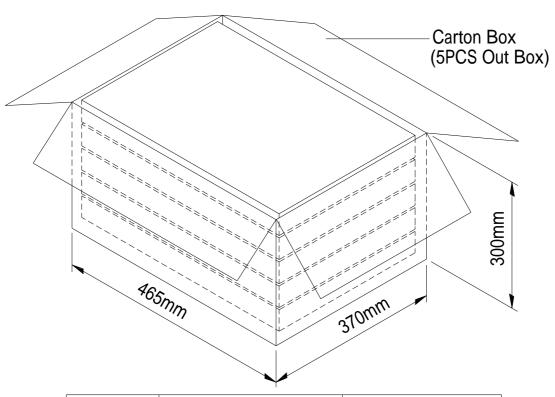
 Judgment Test Condition
 : a) Temperature: +25 ± 2
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

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

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I. PACKING STANDARD 包裝規格





Out Box	450mmx350mmx50mm	1x108PCS=108PCS
Carton Box	455mmx365mmx300mm	108PCSx5=540PCS