# SPECIFICATION FOR APPROVAL

承

認

書

Description : Electret Condenser Microphone

Kingstate Part No. : **KECG2742PBL-A** 

Customer's Model No.:

Specification No. : MKD-7161

Number Of The Edition: 1.2

CUSTOM	CUSTOMER'S APPROVED SIGNATURE					
		•				

### 志豐電子股份有限公司 KINGSTATE ELECTRONICS CORP.



Address: 10F, No. 69-11, Sec. 2, Chung Cheng E. Rd., Tamshui County, Taipei Hsien, Taiwan, R.O.C.

International sales dept.: TEL:886-2-2809-5651 FAX:886-2-2809-7151

Domestic sales dept.: TEL:886-2-2809-0668 FAX:886-2-28096748

http://www.kingstate.com.tw

Approved by	Checked by	Issued by
37 M = 01/	简政东1/06 06′	<b>Qin</b> 01/05/06'

#### A. SCOPE 範疇

This specification applies elect ret condenser microphone, **KECG2742PBL-A** 此規格書適用於電容式麥克風 **KECG2742PBL-A** 

#### B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Directivity 方向性			Omnidirectional 全指向	
2	Sensitivity 靈敏度	S	dB	-42 ± 3	f=1KHz, 1Pa 0dB=1V/Pa
3	Standard operating voltage 標準操作電壓	<b>V</b> s	V D.C.	2	
4	Output impedance 輸出阻抗	<b>Z</b> out	К	2.2	f=1KHZ, 1Pa
5	Max operating voltage 最大操作電壓		V D.C.	10	
6	Sensitivity reduction 減電壓靈敏度	<b>S-V</b> s	dB	-3	f=1KHz, 1Pa Vs=2.0V D.C. to 1.5V D.C.
7	Frequency 頻率	f	Hz	20 ~ 20,000	
8	Max. current consumption 最大耗電流	IDSS	mA	0.5	Vs=2.0V D.C. RL=2.2K
9	Signal to noise ration 訊號對雜音比	S/N	dBA	58	f=1KHz, 1Pa A weighted
10	Operation temp. 操作温度			-20 ~ + 70	
11	Storage temp. 儲存溫度			-20 ~ + 70	
12	Dimension 尺寸		mm	6.0 x 2.7	See appearance drawing 請參照外觀尺寸圖
13	Weight (MAX) 重量		gram	0.17	
14	Material 材質			AL 鋁	
15	Terminal 端子			Pin type (鍍化金/Plating Au)	See appearance drawing 請參照外觀尺寸圖
16	Environmental Protection Regulation 環保法規			RoHS	

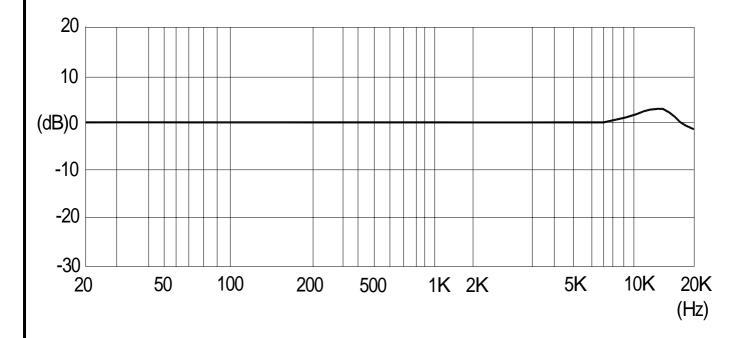
We use "Pascal (Pa)"indication of sensitivity as per the recommendation of I.E.C.(International Electro technical Commission). The Sensitivity of "Pa" will increase 20dB comparing with "ubar" indication.

Example: -60dB (0dB=1V/ubar) =-40dB (1V/Pa)

依I.E.C.(國際電子協會)建議,以"Pa"為靈敏度標示單位比"ubar" 靈敏度標示單位增加20dB

例如: -60dB (0dB=1V/ubar) = -40dB (1V/Pa)

### C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

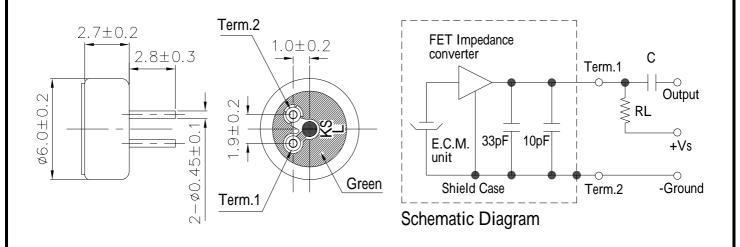


#### D. APPEARANCE DRAWING

#### 外觀尺寸圖

## E.MEASUREMENT CIRCUIT

#### 測量線路



Unit: mm RL=2.2K

#### F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	Evaluation standard
1	Soldering Heat Resistance 焊錫耐熱性	2±0.5 second.	No interference in operation 操作上無任何不良
2	Terminal Mechanical Strength 端子強度	Apply the terminal with 4.9N(0.5kg) strength for 30 second	No damage and cutting off 端子不鬆動,不脫落
3	Wintation lest	The part 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	After any tests, the sensitivity to be within +3dB
4	Drop Test 落下測試	The part unit without packaged must be subjected to each 3 drops at three axises from the height of 1 meter to 20 mm thick wooden board. 未包裝麥克風單體從 1 公尺高處, X.Y.Z.3 個方向,各 3 回,落於 20mm 厚木板上.	測試其靈敏度須與原測試值 的差異不超過±3dB.

#### G. ENVIRONMENTAL TEST 環境試驗

No.	Item	Test conditions	<b>Evaluation standard</b>
1	High temp. test 高溫測試	After being placed in a chamber at +70 for 72 hours. 置於+70 環境中 72 小時	
2	Low temp. test 低溫測試	After being placed in a chamber at -20 for 72 hours. 置於-20 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 240 小時	
4	Temp. cycle test 溫度循環測試	+25	

#### **TEST CONDITION.**

Standard Test Condition<br/>一般測試條件:a) Temperature: +5 ~ +35<br/>a) 溫度: +5 ~ +35b) Humidity: 45-85%<br/>b) 濕度: 45-85%<br/>b) 濕度: 45-85%<br/>c) 氣壓: 860-1060mbar<br/>b) Humidity: 60-70%c) Pressure: 860-1060mbar<br/>c) 戶 Pressure: 860-1060mbar<br/>c) 京壓: 860-1060mbar<br/>c) 京壓: 860-1060mbar

