

SPECIFICATION FOR APPROVAL

承 認 書

Description : Electret Condenser Microphone
Kingstate Part No. : KEEG1538WB-100LB
Customer's Model No. : _____
Specification No. : MKD-7736
Number Of The Edition : 1.2

CUSTOMER'S APPROVED SIGNATURE		

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

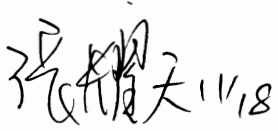
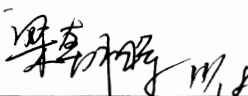


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Approved by	Checked by	Issued by
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A. SCOPE 範疇

This specification applies electret condenser microphone, **KEEG1538WB-100LB**
此規格書適用於電容式麥克風 **KEEG1538WB-100LB**

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	-38 ± 3	f=1KHz, 1Pa 0dB=1V/Pa
3	Standard operating voltage 標準操作電壓	Vs	V D.C.	2	
4	Output impedance 輸出阻抗	Zout	KΩ	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	$\Delta S-Vs$	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=2.2KΩ
9	Signal to noise ration 訊號對雜音比	S/N	dB	58	f=1KHz, 1Pa A weighted
10	Operation temp. 操作溫度		°C	-30 ~ +80	
11	Storage temp. 儲存溫度		°C	-30 ~ +80	
12	Dimension 尺寸		mm	φ 4.0 x1.5	See appearance drawing 請參照外觀尺寸圖
13	Weight(MAX.) 重量		gram	0.10	
14	Material 材質			Brass (Plating Au) 黃銅 (鍍化金)	
15	Terminal 端子			Wire type	See appearance drawing 請參照外觀尺寸圖 (Hand Soldering Only)
16	Environmental Protection Regulation 環保法規			RoHS	
17	Dustproof and waterproof level 防塵、防水等級			IP67	IEC standard 529 edition 2.0(1989) IEC 標準 529 第二版(1989)

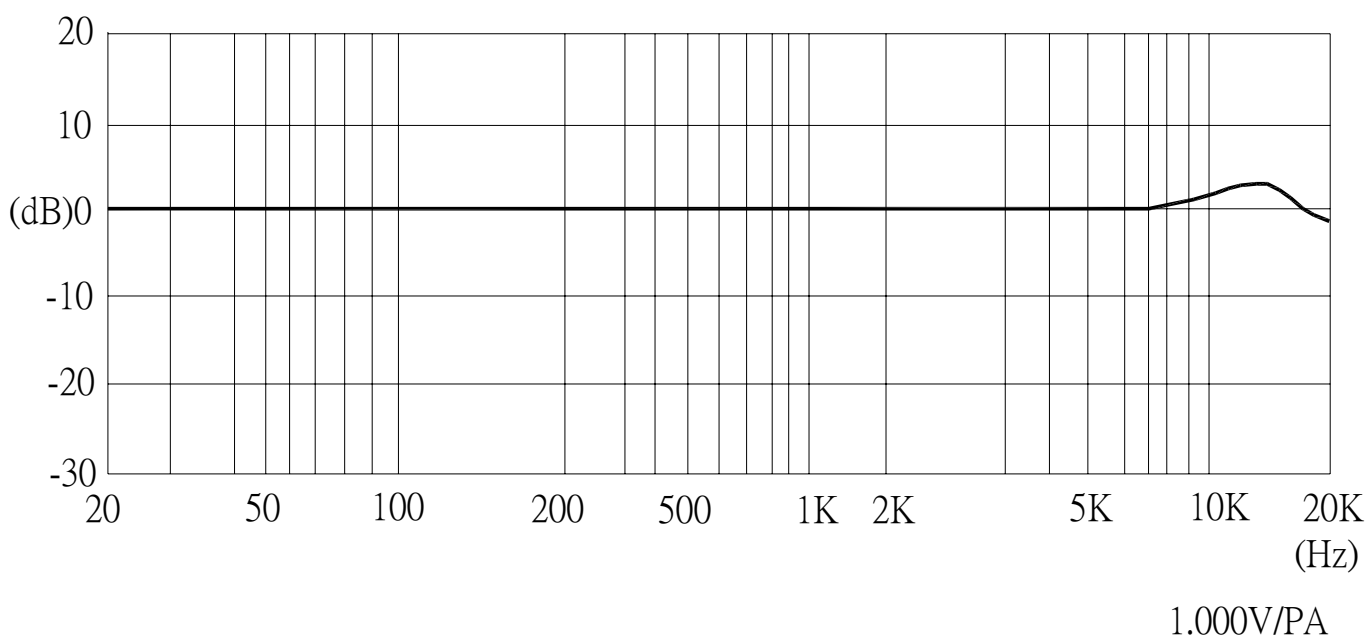
We use "Pascal (Pa)" indication of sensitivity as per the recommendation of I.E.C.(International Electro technical Commission).The Sensitivity of "Pa" will increase 20dB comparing with "ubar" indication.

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

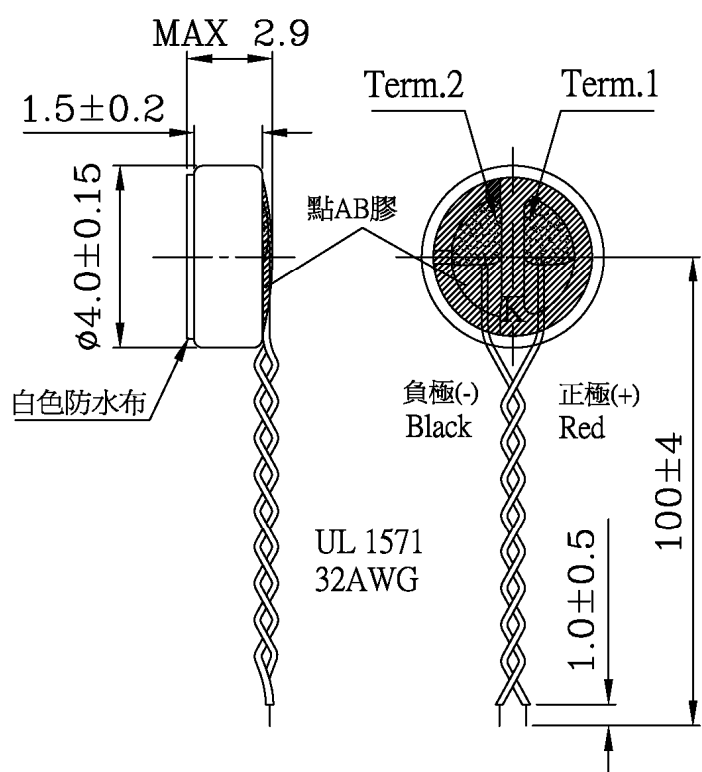
依I.E.C.(國際電子協會)建議,以"Pa"為靈敏度標示單位比"ubar" 靈敏度標示單位增加20dB

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

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



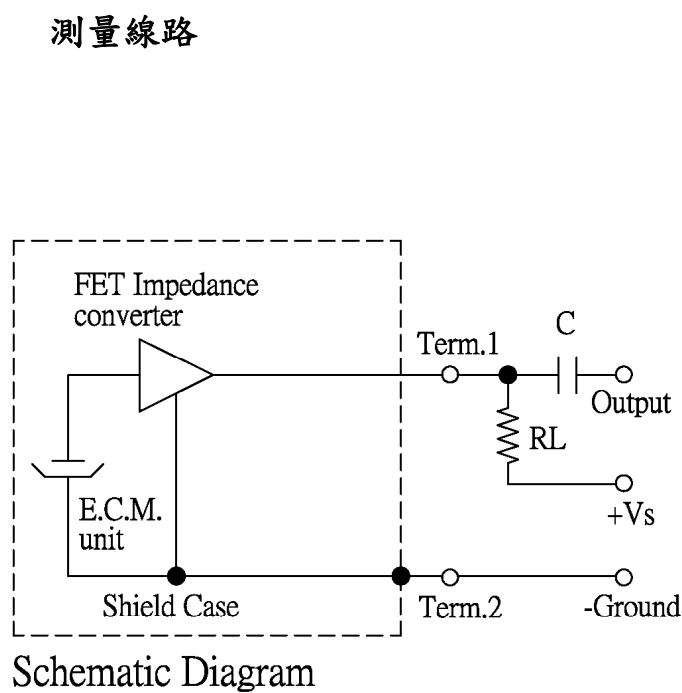
D. APPEARANCE DRAWING 外觀尺寸圖



Unit: mm

Tol: ±0.2

E. MEASUREMENT CIRCUIT 測量線路

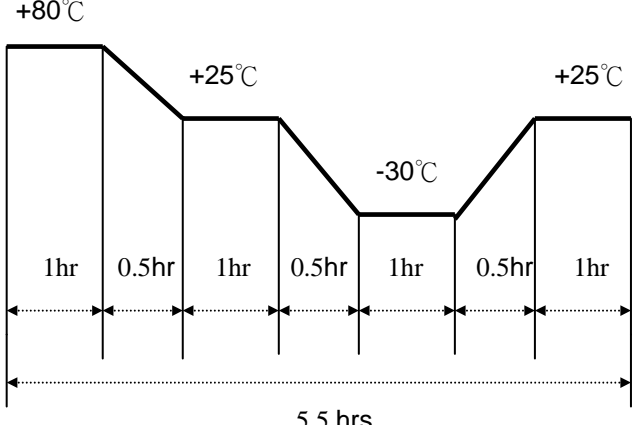


RL=2.2KΩ

F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊錫附着性 (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 $+270\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入 $+270\pm 5^{\circ}\text{C}$ 熔融焊錫槽 3 ± 0.5 秒.	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附着焊錫 90% 以上.(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire : Horizontal 4.9N(0.5kg) for 30 seconds. 雙線材水平方向施以 4.9N(0.5kg) 的力量 30 秒.	No damage and cutting off. 線材不鬆動,不脫落.
3	Vibration 振動試驗	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.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ 測試其靈敏度須與原測試值的差異不超過 $\pm 3\text{dB}$.
4	Drop test 落下測試	The microphone unit without packaged must be subjected to each 3 drops at three axes 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.	

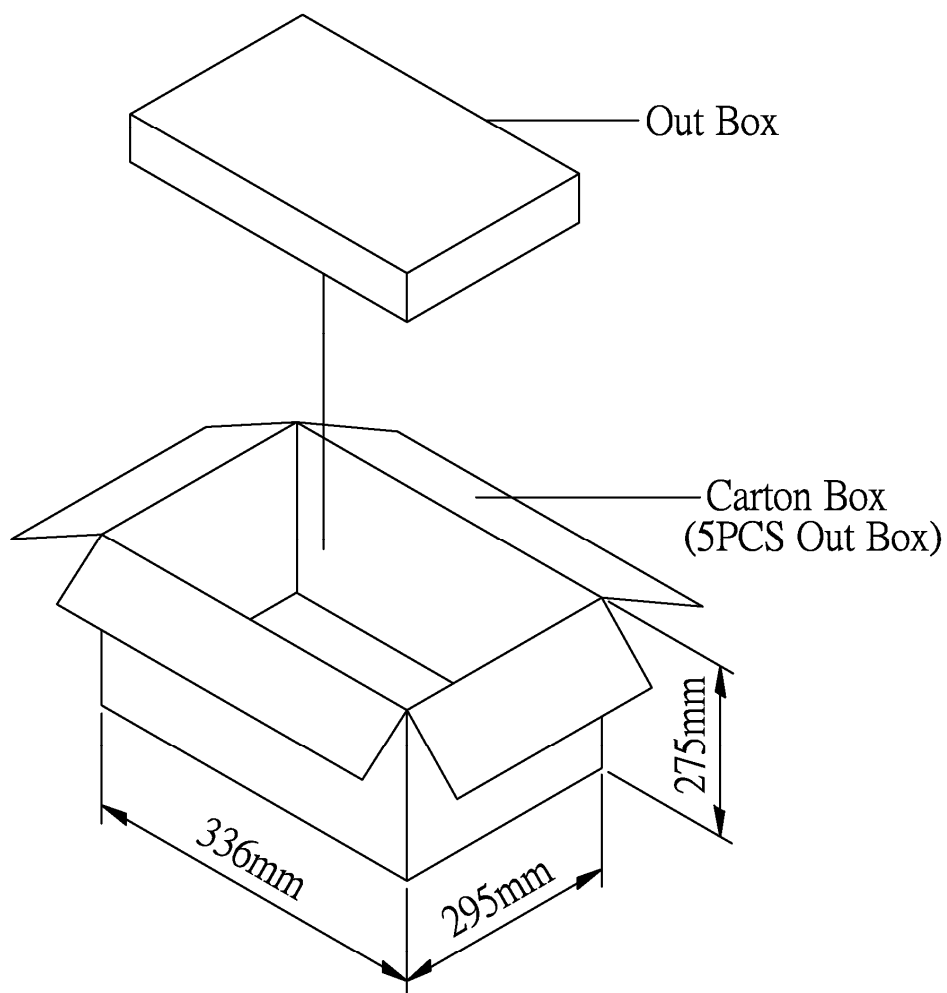
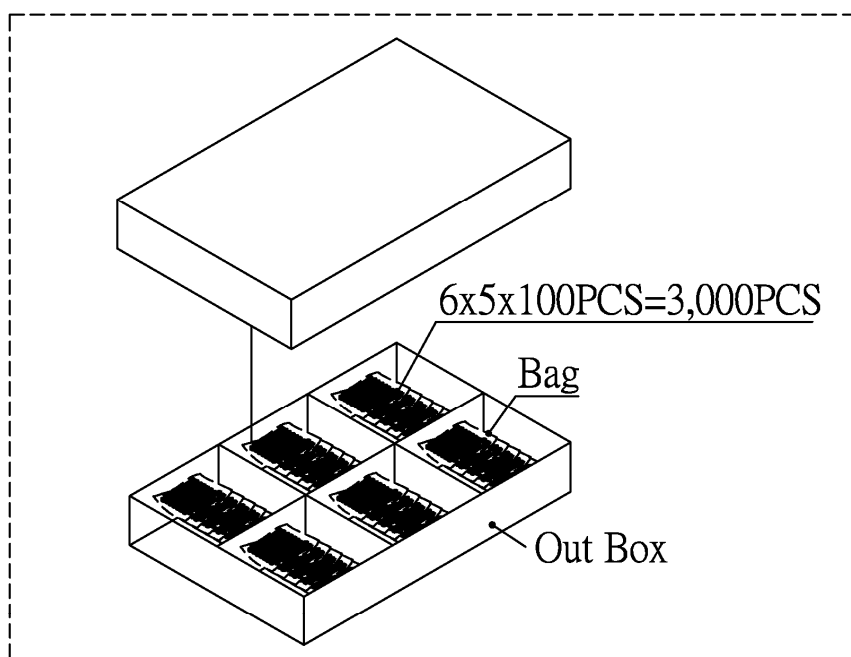
G. ENVIRONMENTAL TEST 環境試驗

No.	Item	Test conditions	Evaluation standard
1	High temp. test 高溫測試	After being placed in a chamber at $+80^{\circ}\text{C}$ for 1 hours. 置於 $+80^{\circ}\text{C}$ 環境中 1 小時	After any tests, the sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 6 hours of conditioning at $+25^{\circ}\text{C}$ 經測試後麥克風,須靜置於 $+25^{\circ}\text{C}$ (室溫) 環境中 6 小時後,測試其靈敏度須與原測試值的差異不超過 $\pm 3\text{dB}$
2	Low temp. test 低溫測試	After being placed in a chamber at -30°C for 1 hours. 置於 -30°C 環境中 1 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at $+40^{\circ}\text{C}$ and $90\pm 5\%$ relative humidity for 240 hours. 置於 $+40^{\circ}\text{C}$, 相對濕度 $90\pm 5\%$ 環境中 240 小時	
4	Temp. cycle test 溫度循環測試	The part shall be subjected to 10 cycles. One cycle shall be consist of : 單體承受溫度循環測試 10 次,其循環內容如圖示 	

TEST CONDITION.

Standard Test Condition : a) Temperature : $+5 \sim +35^{\circ}\text{C}$ b) Humidity : 45-85% c) Pressure : 860-1060mbar
 一般測試條件 : a) 溫度 : $+5 \sim +35^{\circ}\text{C}$ b) 濕度 : 45-85% c) 氣壓 : 860-1060mbar
 Judgement Test Condition : a) Temperature : $+25 \pm 2^{\circ}\text{C}$ b) Humidity : 60-70% c) Pressure : 860-1060mbar
 爭議時測試條件 : a) 溫度 : $+25 \pm 2^{\circ}\text{C}$ b) 濕度 : 60-70% c) 氣壓 : 860-1060mbar

H. PACKING STANDARD 包裝規格



Out Box	310mmx248mmx49mm	1x3,000PCS=3,000PCS
Carton Box	336mmx295mmx275mm	3,000PCSx5=15,000PCS

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