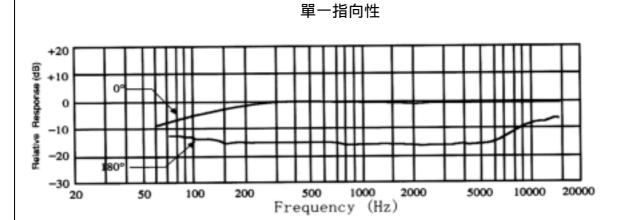
# **VECT** VANSONIC ENTERPRISE CO.,LTD.

8F., No.7, Lane 16, Sec.2, Szechwan Road, Panchiao, Taipei Hsien, TAIWAN.

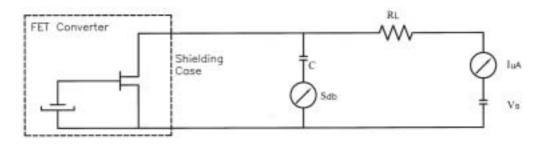
		1AX. +000-2-702 0220
1.	適用範圍	本規格書適用於駐極體電容式麥克風
	Scope	This specification applies electret condenser microphone
2.	型號 Madal Na	VM-8050U-1 ( )
3.	Model No.	<u> </u>
J.	試驗條件 Test Condition	
	3-1 標準試驗條件	温度 / Temperature : 5~35
	Standard Test Condition	相對濕度/Rel. Humidity: 45~85%(RH)
		氣壓 / Pressure : 86~106KPa
	3-2 判定試驗條件	温度 / Temperature : 20±2
	Judgment Test Condition	相對濕度/Rel. Humidity: 60~70%(RH)
		氣壓 / Pressure : 86~106Kpa
4.	規格 Specifications	
	4-1 尺寸	8.0×5.0(±0.2)mm
	Dimension	<u> </u>
	4-2 FET Model:	NEC 2SK1109
	4-3 指向性	Unidirectional (Cardioid)
	Directivity	ornancetional (cardiola)
	4-4 靈敏度	-50±4dB
	Sensitivity	at L=50cm 0dB=1V/Pa,1KHz
	4-5 尺寸圖 Appearar	nce and Dimension Unit: mm
		5.0 Term.1
	4-6 負載阻抗 Operating Impedance	0.68K
	4-7 基準電壓 standard Power Supply	1.5V
	4-8 操作電壓	D.C 1~10V
	Operating Voltage	(Sensitivity Reduction: Within –3dB at 1.0V Compare to 3.0V)
	4-9 頻響特性	100-16,000Hz
	Frequency	100 10,000112
	4-10 耗電流	Max. 0.5mA
	Current Consumption	

4-11 信噪比 S/N Ratio	More than 60dB
4-12 最大輸入聲壓 Max input sound level	120dB SPL

4-13 周波數特性 Typical Frequency Response Curve



### 4-14 回路圖 Test Circuit



# 5. 信賴性試驗 Reliability Test

經過以下所有試驗在 20 的條件下放置 3 小時後, 麥克風的靈敏度與試驗前比較變化在± 3dB 以內。

After any following tests, the sensitivity of the microphone to be within ±3dB of initial sensitivity after 3hours of conditioning at 20

5-1 振動試驗	周波數 1/ Frequency1 : 10Hz~55Hz			
Vibration	振幅 / Amplitude : ±0.15mm			
	周波數 2/ Frequency2 : 55Hz~150Hz			
	加速度 /Acceleration : 20m/s <sup>2</sup>			
	變化 /Change of Frequency: 1 octave/min			
	3 方向,各 2 小時/2 hours in each of 3 axes			
5-2 衝擊試驗	脈衝波形 /Pulse shape : half sinusoidal			
Shocks	脈衝幅 / Pulse duration : 11ms			
	加速度 /Acceleration : 150m/s <sup>2</sup>			
	回數 /Number of jolts : 10 in each of 3 axes			
	(5 in positive and 5 in negative direction)			
5-3 高溫試驗/低溫試	+70 for 72 hours			
馬魚	-20 for 72 hours			
Dry Heat/Cold				
5-4 高溫高濕試驗 Damp Heat	90% RH,+40 for 240 hours			

	5-5 溫度迴圈試驗 Temperature cycles	-20
	5-6 熱衝擊試驗 Rapid Temperature Change	Low:-20 , high:+70 放置時間 /Dwell time :30 min 10 cycles 移行時間 /Transfer time (-20~70):30 sec
6	備註 Note	
	6-1 動作溫度範圍 Operation Temperature	-20 ~70
	6-2 保存溫度範圍 Storage Temperature	-20 ~70
<b>-</b>	1-11-11	

### 7. 焊接條件

**Soldering Condition** 

#### 7-1 焊接使用小於 20W 的電烙鐵。

The soldering copper of a small type of less than 20W shall be applied.

### 7-2 電烙鐵表面溫度低於 270 。

The temperature of the working surface of the soldering copper shall be below 270

## 7-3 焊接時把麥克風嵌入散熱能力強的金屬塊內。

ECM shall be soldered fixed on the metal block (heat sink) which has the higher radiation effects said heat sink shall contact with of ECM.

#### 7-4 焊接時間控制在3秒內。

The soldering time for each terminal shall be 3 sec max.

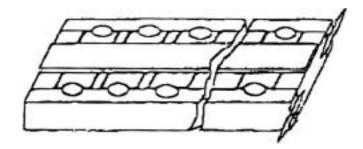
#### 7-5 焊接後不能出現針孔。

The pinhole after soldering shall be avoided.

# 7-6 靜電容易破壞麥克風必須採取措施避免(電烙鐵接地,戴靜電環等。

ECM may easily destroyed by the static electricity and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed.

# 7-7 放熱板形狀 Shape of heat sink



#### 7-8 固定部孔形狀 Shape of hole at fixed part

