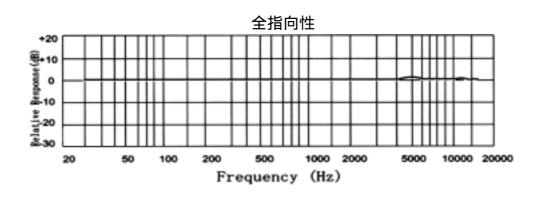
VECT VANSONIC ENTERPRISE CO.,LTD.

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

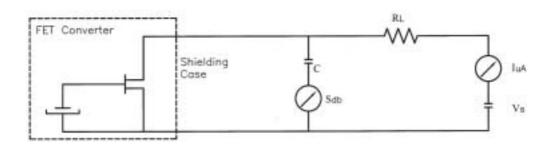
		TAX. +000-2-902 5220
1.	適用範圍	本規格書適用於駐極體電容式麥克風
	Scope	This specification applies electret condenser microphone
2.	型號	VM-4020-1P443
3.	Model No.	
٥.	試驗條件 Test Condition	
	3-1 標準試驗條件	温度 / Temperature : 5~35
	Standard Test	相對濕度/Rel. Humidity : 45~85%(RH)
	Condition	氣壓 / Pressure : 86~106KPa
	3-2 判定試驗條件	温度 / Temperature : 20±2
	Judgment Test	相對濕度/Rel. Humidity : 60~70%(RH)
	Condition	氣壓 / Pressure : 86~106Kpa
4.	規格 Specifications	
	4-1 尺寸	4.5×2.0(±0.2)mm
	Dimension	
	4-2 FET Model:	SANYO TF-202
	4-3 指向性	Omni-directional
	Directivity	Onni-diectional
	4-4 靈敏度	at L=50cm
	Sensitivity	-36±3dB -38±3dB -40±3dB -42±3dB -44±3dB -46±3dB 0dB=1V/Pa, 1KHz
	4-5 尺寸圖 Appearar	nce and Dimension Unit: mm
		2.0 2.8 Term.1
	4-6 負載阻抗 Operating Impedance	2.2K
	4-7 基準電壓 standard Power Supply	3.0V
	4-8 操作電壓 Operating Voltage	D.C 1~10V (Sensitivity Reduction: Within –3dB at 1.0V Compare to 3.0V)
	4-9 頻響特性 Frequency	50-20,000Hz
	4-10 耗電流 Current Consumption	Max. 0.5mA

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 .

•	<u> </u>
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 ²
	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 ²
	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	000/ DIL : 40
Damp Heat	90% RH,+40 for 240 hours
5-5 溫度迴圈試驗	-20 4 2 5 7 0
Temperature cycles	(2H) (1H) (2H) (2H) 10 cycles

	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

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.

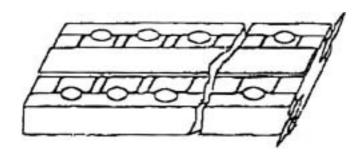
7-5 焊接後不能出現針孔。

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

