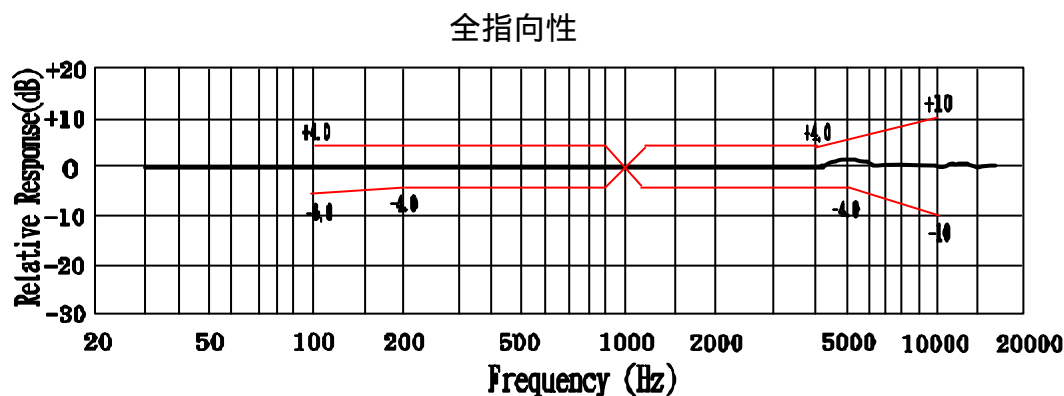
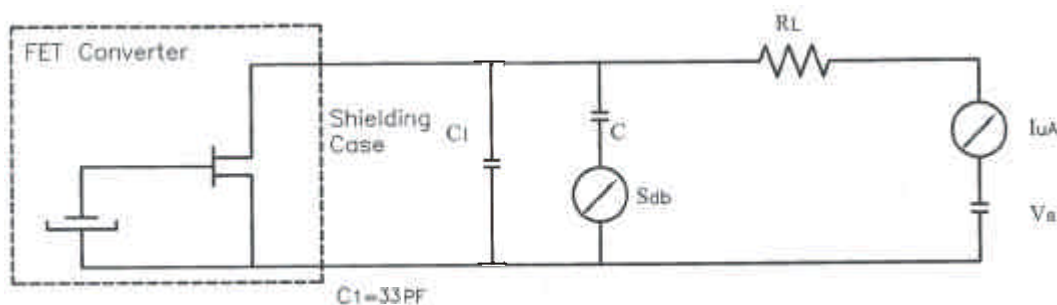


1.	適用範圍 Scope	本規格書適用於駐極體電容式麥克風 This specification applies electret condenser microphone		
2.	型號 Model No.	VM-6012-1PC453(PIN2.9)		
3.	試驗條件 Test Condition			
	3-1 標準試驗條件 Standard Test Condition	溫度 / Temperature : 5~35 相對濕度/Rel. Humidity : 45~85%(RH) 氣壓 / Pressure : 86~106KPa		
	3-2 判定試驗條件 Judgment Test Condition	溫度 / Temperature : 20 ± 相對濕度/Rel. Humidity : 60~70%(RH) 氣壓 / Pressure : 86~106Kpa		
4.	規格 Specifications			
	4-1 尺寸 Dimension	6.0 × 1.2 (±0.2)mm		
	4-2 FET Model:	NEC 2SK3857		
	4-3 指向性 Directivity	Omni-directional		
	4-4 靈敏度 Sensitivity	~		at L=50cm
		-45 ±dB		0dB=1V/Pa, 1KHz
	4-5 尺寸圖 Appearance and Dimension	Unit : mm		
	4-6 負載阻抗 Operating Impedance	2.2K		
	4-7 基準電壓 standard Power Supply	2.0V		
	4-8 操作電壓 Operating Voltage	D.C 1~10V (Sensitivity Reduction: Within -3dB at 1.0V Compare to 2.0V)		
	4-9 頻響特性 Frequency	20-16,000Hz		
4-10 耗電流 Current Consumption	Max. 0.5mA			
4-11 信噪比 S/N Ratio	More than 55dB			
4-12 最大輸入聲壓 Max input sound level	100dB SPL			

4-13 周波數特性 Typical Frequency Response Curve



4-14 回路圖 Test Circuit



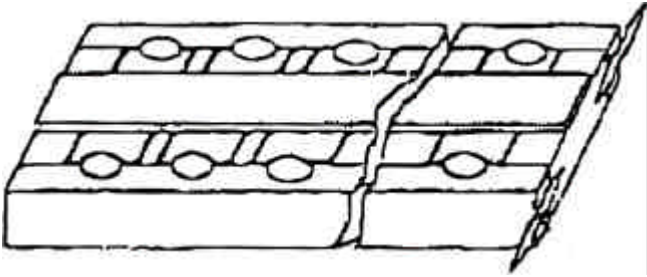
5. 信賴性試驗 Reliability Test

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 $\pm 3\text{dB}$ 以內。
 After any following tests, the sensitivity of the microphone to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20 .

5-1 振動試驗 Vibration	周波數 1/ Frequency1 : 10Hz~55Hz 振幅 / Amplitude : $\pm 0.15\text{mm}$ 變化 / Change of Frequency: 1 octave/min 3 方向，各 2 小時/ 2 hours in each of 3 axes
5-2 高溫試驗 Dry Heat	+70 for 72 hours
5-3 低溫試驗 Dry Cold	-20 for 72 hours
5-4 高溫高濕試驗 Damp Heat	90% ~ 95%RH,+40 for 240 hours
5-5 溫度迴圈試驗 Temperature cycles	-20 \longleftrightarrow 25 \longleftrightarrow 70 \longleftrightarrow 20 (2H) (1H) (2H) (1H) (2H) (2H) 10 cycles
5-6 跌落試驗 Packing drop test	Height : 1m 順序 : 三個面各跌 5 次 procedure : 5 times from each of 3 axes

6 備註 Note

6-1 動作溫度範圍 Operation Temperature	-40 ~75
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	6-2 保存溫度範圍 Storage Temperature	-40 ~75
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 290 。 The temperature of the working surface of the soldering copper shall be below 290	
	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 