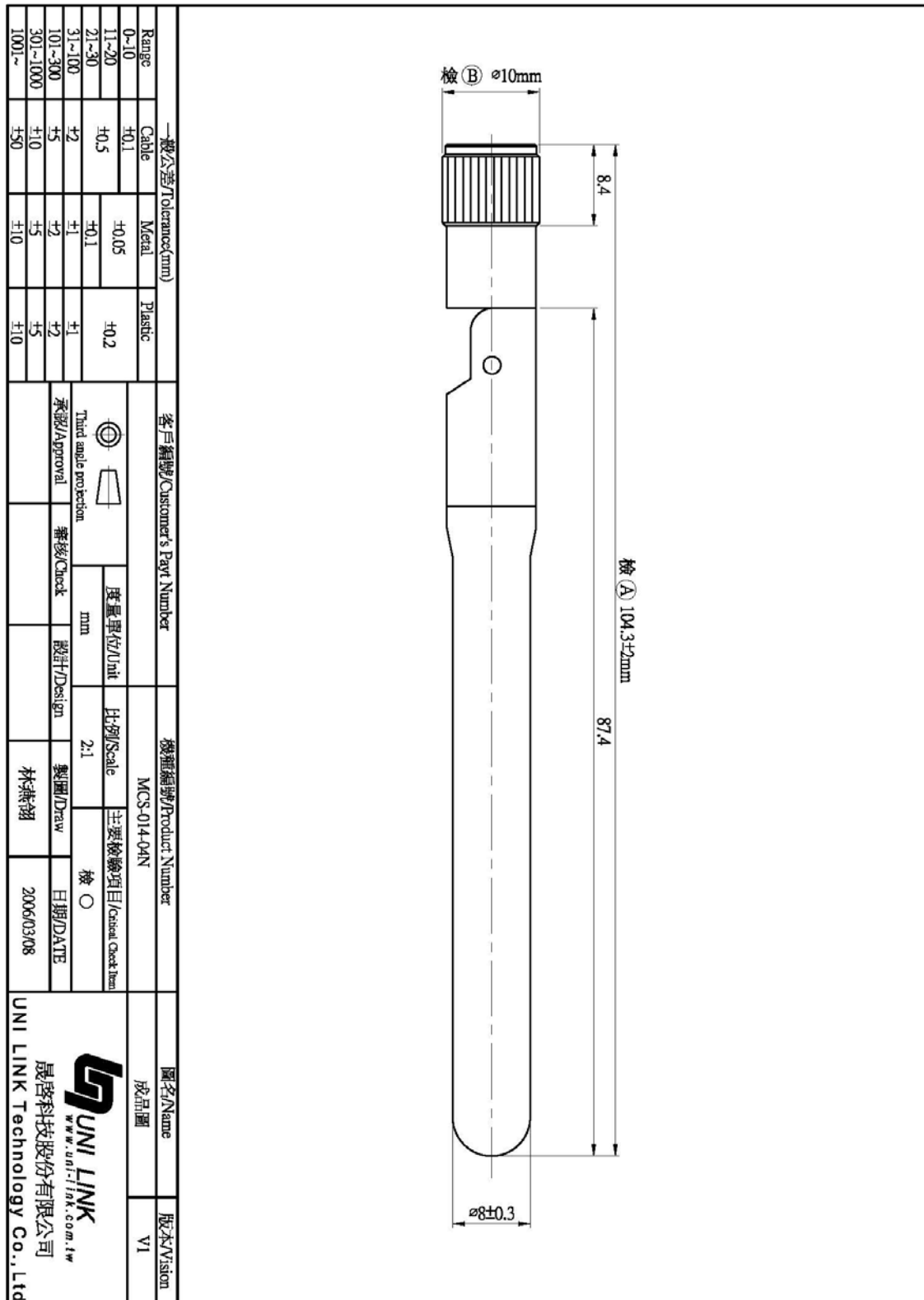


SPECIFICATION

1. Description	GSM Antenna
2. Part Number	MCS-014-04N
3. Mechanical Characteristics	See attached drawing
Connector	Re-SMA(M)
Color	黑色
Appearance	See attached drawing
4. Electrical Characteristics	See attached drawing
Operating Frequency	890~960/1710~1880MHz
Peak Gain	0dBi
Impedance	50 ohm
V.S.W.R	See attached S11 824~960MHz: 2.0:1 max 1710~1990 MHz: 4.0:1 max
Polarization	Vertical
5. Operating Temperature	-20℃ ~ +65℃
6. Storage Temperature	-30℃ ~ +75℃
7. Packing	PE 袋

成品圖



ELECTRONICAL CHARACTERISTICS.電器特性.			
ITEM 項目		TEST CONDITION 測試環境	SPECIFICATION 規格
1	RETURN LOSS 反射損耗	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Return loss Characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之返迴損耗參數	如附圖 1
2	VSWR 電壓駐波比	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 VSWR Characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之電壓駐波比參數	如附圖 2
3	Smith Chart 史密斯圖	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Smith Chart Characteristics. 使用 Agilent 網路分析儀 8753ET 測量天線 S11 之史密斯阻抗參數	如附圖 3

MECHANICAL CHARACTERISTICS.機械性能			
1	INSERTION AND WITHDRAW FORCE 插拔力	Being measure insertion and withdraw Force between the adaptor And receptacles for Push Pull Gage 用拉力計在接頭與插座之間進行 接頭拉力強度測試	Insertion and Withdraw force $\geq 1.8\text{kg}$ 插拔力 $\geq 1.8\text{kg}$
2	STRENGTH TEST 強度試驗	A static force of 45lbs being applied in One direction on the of the Cable terminal For one minute 一個 45 磅之靜負荷施加於線端底部 持續一分鐘.	There shall be no visible marks of mechanical and electrical damage. 無任何現象顯示及 電器性能之損壞..
3	PULL AND EXTEND TEST 拉伸試驗	Between curve and perpendicularity: 45lbs/30sec. 彎曲和垂直之間:45 磅/30 秒 Between curve and plug :45lbs/30sec. 彎曲和接頭之間:45 磅/30 秒 Between plug and coaxial-cable: 45lbs/1min. 接頭和同軸線之間:45 磅/1 分鐘	There shall be no visible marks of mechanical and electrical damage. 無任何現象顯示機 械及電器性能之 損壞.
4	VIBRATION TEST 振動測試	After being applied vibration of Amplitude of 1.5mm with 1000Hz band Of vibration frequency of perpendicular Directions for 5 minute. 以 1.5mm 的振幅和 1000MHz/sec 振動頻率以垂直方向振動 5 分鐘	There shall be no visible marks of mechanical and electrical damage. 無任何現象顯示機 械及電器性能之 損壞.

DURABILITY.耐久性測試			
1	LIFE TEST. 耐久性測試	鹽水噴霧試驗:依 GB1266-86 標準 蒸餾水:一次蒸餾 PH:6.5~7 噴霧量:1.4me80cm ² /h 壓縮空氣壓力:1kgf/cm ² 試驗相對溼度:98° 溫度:45~47° 壓力溫度:35° 測試時間 96 hr.	All characteristic range is 30% of the initial value 所有規格變化範圍. 初始值 30%
2	HEAT TEST. 高溫試驗	85+2°C for 96 hours, after keep in normal condition for 30 min then to test. 在 85+2°C 環境中放 96 小時, 再放在正常環境中 30 分鐘後進行測試.	
3	HUMIDITY TEST. 濕試驗	40+2°C 90-95% RH for 96 hrs. after keep in normal condition for 30 min then to test. 在 40+2°C 90-95%RH 再環境中放 96 小時, 再放在正常環境中 30 分鐘後進行測試.	
4	COLD TEST. 低溫試驗	-40+2°C for 96 hrs. After keep in normal condition for 30 min then to test. 在 -40+2°C 環境中放 96 小時, 再置於正常環境中 30 分鐘後進行測試.	