



# Welletronics Communication Technology

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Welletronics Communication Technology Limited

1st to 3rd Floors, Building 8, Tongfu Village Industrial Zone, Dalang Community, Dalang Sub-district, Longhua District, Shenzhen City



## Product Specification

1、Product Picture

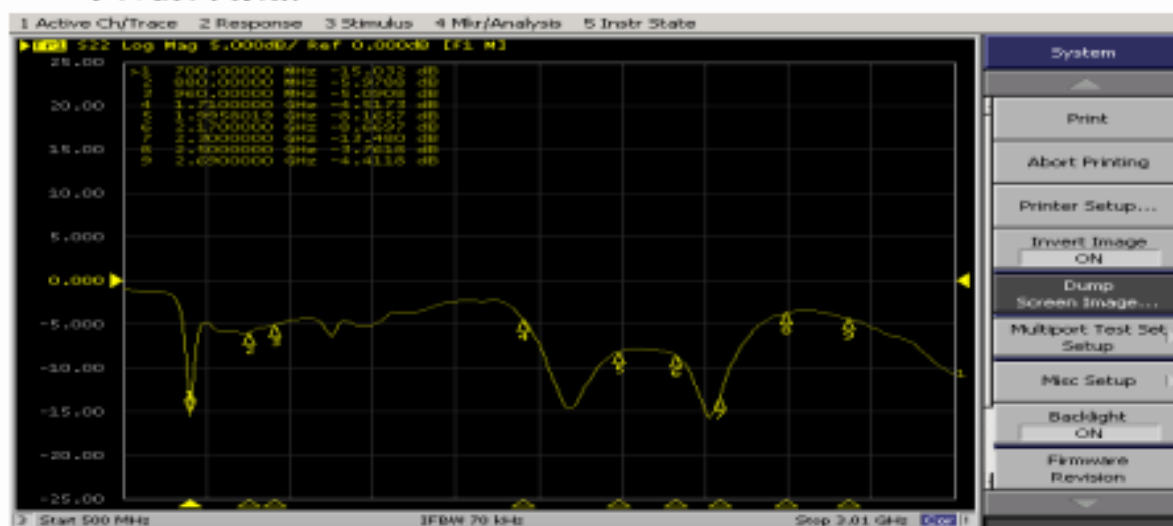


2、Test Specification

|                                       |                                  |                            |                |
|---------------------------------------|----------------------------------|----------------------------|----------------|
| 产品名称(Name)                            | JWM Hi-Tech Development Co., Ltd | 产品型号(Model Type)           | 5000L4         |
| 电 性 能 指 标 (Electrical Specifications) |                                  |                            |                |
| 频 率 范 围 (Frenquency Range)            | 700-2690MHz                      | 极化方式 (Polarization)        | Vertical       |
| 输入阻抗(Impedance)                       | 50 Ω                             | 辐射方向 (Radiation direction) | All directions |
| 回波损耗 (Return Loss)                    | 3.7-15                           | 功率容量(Power)                | 50W            |
| 增益(Gain)                              | -4.51dBi                         | 带宽 (Bandwidth              | 1990MHz        |
| 机 械 指 标 (Mechanical Specifications)   |                                  |                            |                |
| 尺寸 (Dimensions)                       |                                  | 外壳颜色(Radome Color)         |                |
| 连接器型号 (Connector)                     | coaxial line                     | 外壳材料 Radome Material       |                |
| 工作温度 (Working Temperature)            | -45℃--+85℃                       | 存放温度 (Limit Temperature)   | -45℃--+85℃     |

## S11 antenna Data

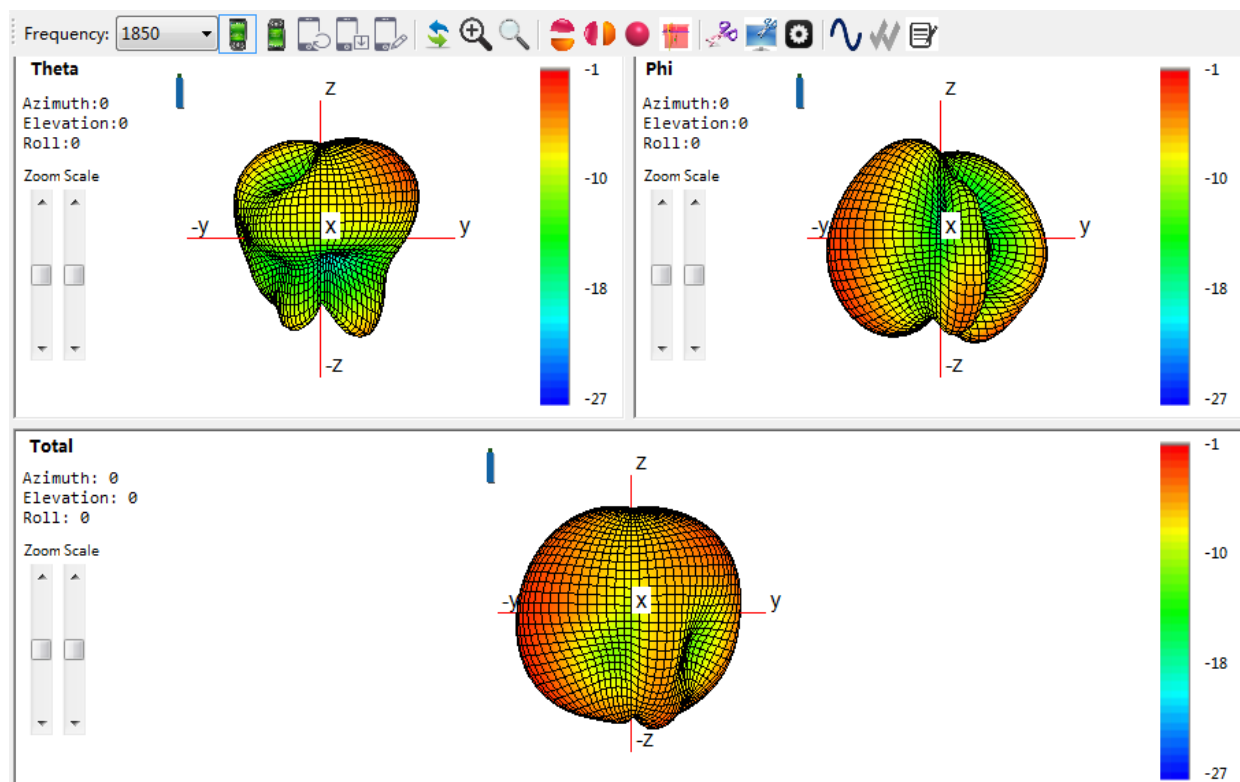
## 3、S11 天线效率数据



| Main ANT Passive |            |               |
|------------------|------------|---------------|
| Frequency        | Gain (dBi) | Efficiency(%) |
| 790              | -3.9       | 40.72         |
| 800              | -3.88      | 40.96         |
| 810              | -3.66      | 43.09         |
| 820              | -4.22      | 37.85         |
| 830              | -3.57      | 43.97         |
| 840              | -3.39      | 45.86         |
| 850              | -2.35      | 58.25         |
| 860              | -1.61      | 69.07         |
| 870              | -1.93      | 64.11         |
| 880              | -2.66      | 54.24         |
| 890              | -2.5       | 56.17         |
| 900              | -3.35      | 46.26         |
| 910              | -3.97      | 40.12         |
| 920              | -4.78      | 33.3          |
| 930              | -5.74      | 26.67         |
| 940              | -6.95      | 20.2          |
| 950              | -7.22      | 18.99         |
| 960              | -7.35      | 18.4          |
| 1710             | -5.79      | 26.35         |
| 1720             | -5.65      | 27.24         |
| 1730             | -5.49      | 28.24         |
| 1740             | -5.49      | 28.26         |
| 1750             | -5.26      | 29.76         |
| 1760             | -5.09      | 30.97         |
| 1770             | -5.12      | 30.79         |
| 1780             | -4.92      | 32.23         |
| 1790             | -4.72      | 33.74         |
| 1800             | -4.58      | 34.86         |
| 1810             | -5.18      | 30.33         |
| 1820             | -5.1       | 30.87         |
| 1830             | -5         | 31.65         |
| 1840             | -4.63      | 34.45         |
| 1850             | -4.93      | 35.58         |
| 1860             | -4.51      | 39.18         |
| 1870             | -4.55      | 38.83         |
| 1880             | -4.59      | 38.49         |
| 1890             | -4.67      | 37.73         |
| 1900             | -5.15      | 33.82         |
| 1910             | -5.24      | 33.09         |
| 1920             | -5.16      | 33.73         |
| 1930             | -4.9       | 35.85         |
| 1940             | -5.11      | 34.14         |
| 1950             | -5.2       | 33.43         |
| 1960             | -5.34      | 32.39         |
| 1970             | -5.65      | 30.14         |
| 1980             | -6.6       | 24.21         |
| 1990             | -6.87      | 22.77         |

|      |       |       |
|------|-------|-------|
| 2000 | -7.01 | 22.01 |
| 2010 | -6.97 | 22.22 |
| 2020 | -7.04 | 21.88 |
| 2030 | -7.04 | 21.88 |
| 2040 | -6.94 | 22.39 |
| 2050 | -6.98 | 22.17 |
| 2060 | -6.82 | 23    |
| 2070 | -6.77 | 23.28 |
| 2080 | -6.62 | 24.08 |
| 2090 | -6.56 | 24.42 |
| 2100 | -6.81 | 23.08 |
| 2110 | -6.67 | 23.83 |
| 2120 | -6.6  | 24.18 |
| 2130 | -6.76 | 23.34 |
| 2140 | -6.39 | 25.42 |
| 2150 | -6.55 | 24.47 |
| 2160 | -6.65 | 23.92 |
| 2170 | -6.57 | 24.4  |
| 2180 | -6.44 | 25.09 |
| 2190 | -6.42 | 25.23 |
| 2200 | -6.53 | 24.59 |
| 2210 | -6.88 | 22.69 |
| 2220 | -6.75 | 23.39 |
| 2230 | -6.54 | 24.56 |
| 2240 | -6.36 | 25.56 |
| 2250 | -6.37 | 25.52 |
| 2260 | -6.5  | 24.77 |
| 2270 | -6.66 | 23.86 |
| 2280 | -6.73 | 23.5  |
| 2290 | -6.56 | 24.43 |
| 2300 | -6.85 | 22.86 |
| 2310 | -6.61 | 24.14 |
| 2140 | -6.39 | 25.42 |
| 2150 | -6.55 | 24.47 |
| 2160 | -6.65 | 23.92 |
| 2170 | -6.57 | 24.4  |
| 2180 | -6.44 | 25.09 |
| 2190 | -6.42 | 25.23 |
| 2200 | -6.53 | 24.59 |
| 2210 | -6.88 | 22.69 |
| 2220 | -6.75 | 23.39 |
| 2230 | -6.54 | 24.56 |
| 2240 | -6.36 | 25.56 |
| 2250 | -6.37 | 25.52 |
| 2260 | -6.5  | 24.77 |
| 2270 | -6.66 | 23.86 |

|      |       |       |
|------|-------|-------|
| 2280 | -6.73 | 23.5  |
| 2290 | -6.56 | 24.43 |
| 2300 | -6.85 | 22.86 |
| 2310 | -6.61 | 24.14 |
| 2320 | -6.88 | 22.71 |
| 2330 | -7.25 | 20.87 |
| 2340 | -8.06 | 17.28 |
| 2350 | -8.19 | 16.8  |
| 2360 | -8.17 | 16.87 |
| 2370 | -8.08 | 17.23 |
| 2380 | -7.89 | 17.97 |
| 2390 | -7.43 | 20    |
| 2400 | -6.93 | 22.42 |
| 2410 | -6.98 | 22.2  |
| 2420 | -6.66 | 23.88 |
| 2430 | -6.44 | 25.14 |
| 2440 | -6.21 | 26.49 |
| 2450 | -5.84 | 28.82 |
| 2460 | -5.83 | 28.93 |
| 2470 | -5.47 | 31.44 |
| 2480 | -5.52 | 31.03 |
| 2490 | -5.4  | 31.95 |
| 2500 | -5.28 | 32.79 |
| 2510 | -5.49 | 31.29 |
| 2520 | -4.84 | 32.84 |
| 2530 | -4.63 | 34.47 |
| 2540 | -4.64 | 34.32 |
| 2550 | -4.43 | 36.07 |
| 2560 | -4.06 | 39.28 |
| 2570 | -3.75 | 42.16 |
| 2580 | -3.29 | 46.83 |
| 2590 | -3.05 | 49.49 |
| 2600 | -3.5  | 44.69 |
| 2610 | -3.12 | 48.74 |
| 2620 | -3.08 | 49.17 |
| 2630 | -3.15 | 48.4  |
| 2640 | -3.18 | 48.09 |
| 2650 | -3.06 | 49.48 |
| 2660 | -3.44 | 45.25 |
| 2670 | -3.61 | 43.53 |
| 2680 | -3.73 | 42.32 |
| 2690 | -3.91 | 40.64 |
| 2700 | -3.92 | 40.53 |



## 3.1 Active Data

| EU<br>Open<br>Market | SIM7100XE   |    | OTA Spec |       |  |  | EU<br>Open<br>Market | SIM7100XCE  |    | OTA Spec |       |  |  |
|----------------------|-------------|----|----------|-------|--|--|----------------------|-------------|----|----------|-------|--|--|
|                      | BAND        | CH | TRP      | TIS   |  |  |                      | BAND        | CH | TRP      | TIS   |  |  |
|                      |             |    |          |       |  |  |                      |             |    |          |       |  |  |
| 2G                   | GSM900      | L  | 27.26    |       |  |  | 2G                   | GSM900      | L  | 27.97    |       |  |  |
|                      |             | M  | 26.49    |       |  |  |                      |             | M  | 26.21    |       |  |  |
|                      |             | H  | 25.77    | -91.9 |  |  |                      |             | H  | 15.25    | -91.3 |  |  |
|                      | DCS1800     | L  | 24.56    |       |  |  |                      | DCS1800     | L  | 24.72    |       |  |  |
|                      |             | M  | 25.03    |       |  |  |                      |             | M  | 25.85    |       |  |  |
|                      |             | H  | 25.33    | -98.1 |  |  |                      |             | H  | 26.48    | -97.9 |  |  |
| 3G                   | WB1(2100)   | L  | 20.07    |       |  |  | 3G                   | WB1(2100)   | L  | 20.16    |       |  |  |
|                      |             | M  | 20.5     |       |  |  |                      |             | M  | 20.79    |       |  |  |
|                      |             | H  | 19.74    | -107  |  |  |                      |             | H  | 20.35    | -106  |  |  |
|                      | WB8(900)    | L  | 15.81    |       |  |  |                      | WB8(900)    | L  | 15.76    |       |  |  |
|                      |             | M  | 14.42    |       |  |  |                      |             | M  | 14.53    |       |  |  |
|                      |             | H  | 15.65    | -98.3 |  |  |                      |             | H  | 15.54    | -95.4 |  |  |
| 4G                   | LTE band 1  | L  | 18.43    |       |  |  | 4G                   | LTE band 1  | L  | 19.18    |       |  |  |
|                      |             | M  | 18.79    |       |  |  |                      |             | M  | 19.02    |       |  |  |
|                      |             | H  | 18.03    | -93   |  |  |                      |             | H  | 19.85    | -92.2 |  |  |
|                      | LTE band 3  | L  | 15.62    |       |  |  |                      | LTE band 3  | L  | 16.11    |       |  |  |
|                      |             | M  | 16.27    |       |  |  |                      |             | M  | 17.08    |       |  |  |
|                      |             | H  | 16.73    | -87   |  |  |                      |             | H  | 18.04    | -86.5 |  |  |
|                      | LTE band 7  | L  | 15.53    |       |  |  |                      | LTE band 8  | L  | 15.38    |       |  |  |
|                      |             | M  | 16.42    |       |  |  |                      |             | M  | 14.97    |       |  |  |
|                      |             | H  | 17.03    | -81.8 |  |  |                      |             | H  | 15.53    | -80.2 |  |  |
|                      | LTE band 8  | L  | 15.92    |       |  |  |                      | LTE band 38 | L  | 18.85    |       |  |  |
|                      |             | M  | 14.47    |       |  |  |                      |             | M  | 17.48    |       |  |  |
|                      |             | H  | 15.5     | -80.1 |  |  |                      |             | H  | 18.63    | -84.3 |  |  |
|                      | LTE band 20 | L  | 17.37    |       |  |  |                      | LTE band 39 | L  | 19.25    |       |  |  |
|                      |             | M  | 16.77    |       |  |  |                      |             | M  | 19.02    |       |  |  |
|                      |             | H  | 16.17    | -83   |  |  |                      |             | H  | 19.3     | -84.4 |  |  |
|                      | LTE band 38 | L  | 17.74    |       |  |  |                      | LTE band 40 | L  | 18.67    |       |  |  |
|                      |             | M  | 16.56    |       |  |  |                      |             | M  | 17.56    |       |  |  |
|                      |             | H  | 16.81    | -85.1 |  |  |                      |             | H  | 17.1     | -81.4 |  |  |
|                      | LTE band 40 | L  | 18.56    |       |  |  |                      | LTE band 41 | L  | 18.87    |       |  |  |
|                      |             | M  | 17.89    |       |  |  |                      |             | M  | 18.38    |       |  |  |
|                      |             | H  | 17.45    | -81.3 |  |  |                      |             | H  | 17.51    | -83   |  |  |

4、Product structure

