

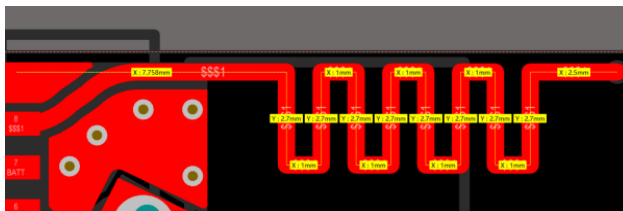
## Product specification

### Quick Reference Date

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Frequenc Range             | 2402 ~ 2480GHz                     |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)   |  |
| Tot. Rad. Pwr. (dBm)       | -1.2 (Input pwr – loss pwr)        |  |
| Peak EIRP(dBm)             | -3                                 |  |
| Directivity (dBi)          | 1 (all direction antenna)          |  |
| Efficiency (dB)            | 1.0%                               |  |
| Gain (dBi)                 | 1.68(Avg Gain XY-plane)            |  |
| Maximum Power (dBm)        | -2.6 (XY-plane)                    |  |
| Minimum Power (dBm)        | -8.5(XY-plane)                     |  |
| Avg. Power (dBm)           | -4.8(XY-plane)                     |  |
| Input Impedence(ohm)       | 50                                 |  |
| Polarization Type          | V ertical & Horizontal             |  |
| V . S .W . R               | < 3                                |  |

All the technical data and information contained herein are subject to change without prior notice

### Antenna Layout & module on the system board



### Antenna Gain

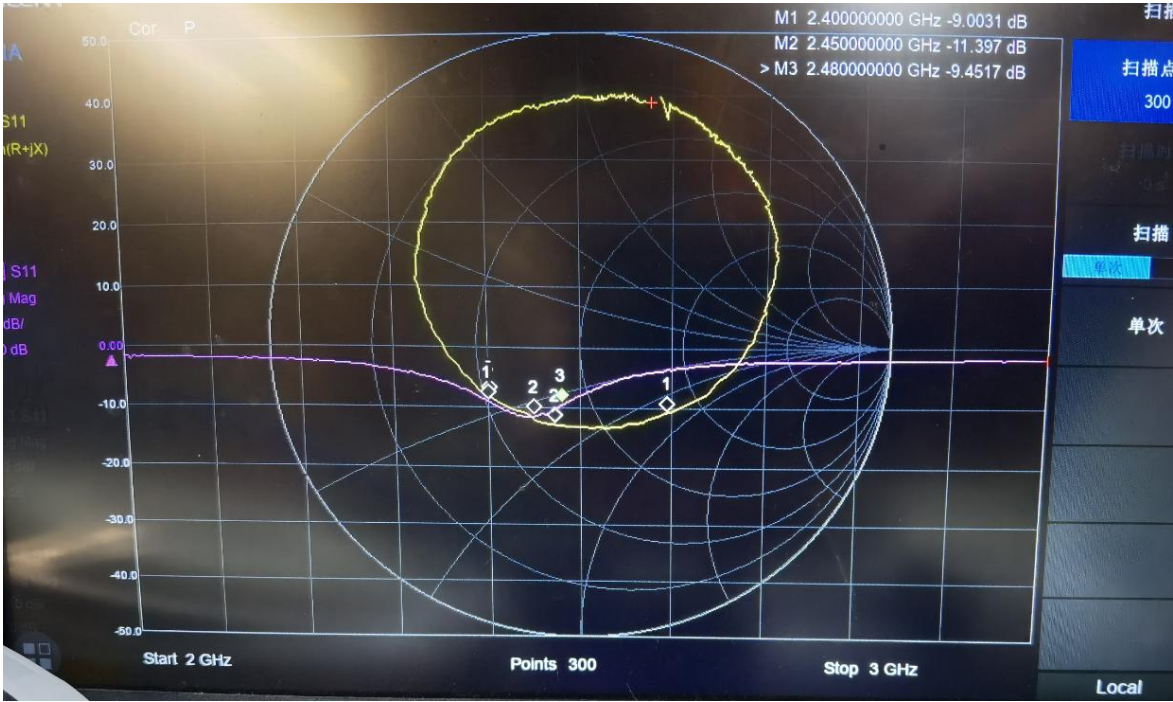
Gain Table

| Unit in dBi @2.44GHz | XY-plane |       | XZ-plane |       | YZ-plane |       | Efficiency |
|----------------------|----------|-------|----------|-------|----------|-------|------------|
|                      | Peak     | Avg.  | Peak     | Avg.  | Peak     | Avg.  |            |
| Module Board         | 1.35     | -0.48 | 1.68     | -3.83 | 1.11     | -2.99 | 47.6%      |

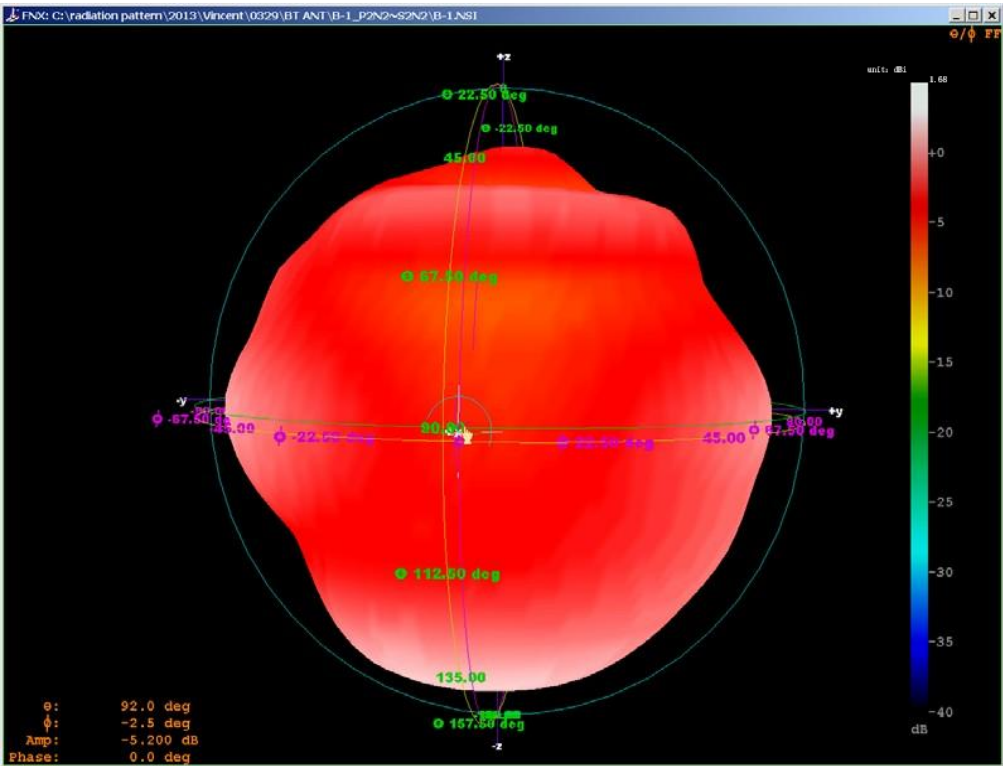
Shenzhen ChiHeng Quick Circuit Co., Ltd.

No. 206, Building 20, Zone A3, Fourth Industrial Zone, Hewan Community, Ma Tian Subdistrict, Guangming District, Shenzhen

Return Loss



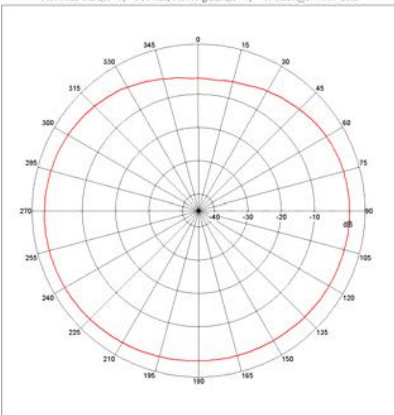
# 3D radiation pattern diagram



## XY-plane

Far-field Power Distribution(H+V) on X-Y Plane

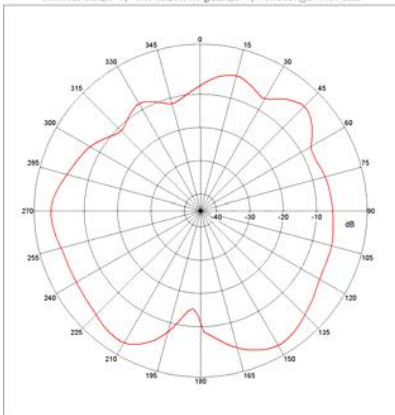
Plot Peak Gain(H+V)= 1.35 dB; Plot AvgGain(H+V)= -0.48dB @2.44000 GHz



## XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane

Plot Peak Gain(H+V)= 1.68 dB; Plot AvgGain(H+V)= -3.83dB @2.44000 GHz



## YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane

Plot Peak Gain(H+V)= 1.11 dB; Plot AvgGain(H+V)= -2.99dB @2.44000 GHz

