

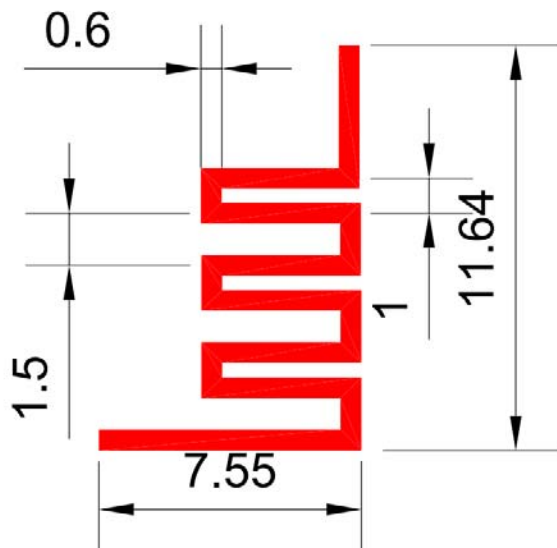
## Product specification

### Quick Reference Data

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Frequenc Range             | 2400 ~ 2500GHz                     |  |
| 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 (Peak Gain XZ-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          | Vertical & Horizontal              |  |
| V . S . W . R              | < 3                                |  |
| Manufacturer               | Shenzhen Tuyi Electronics Co., Ltd |  |

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

### Antenna Layout & module on the system board

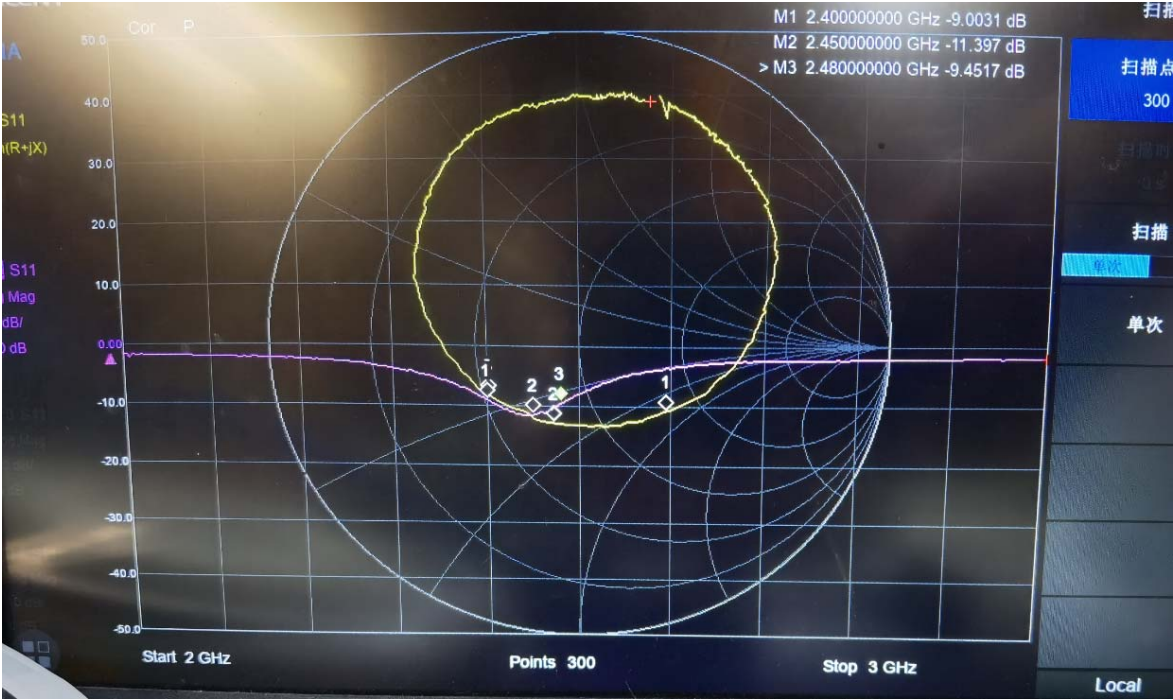


### Antenna Gain

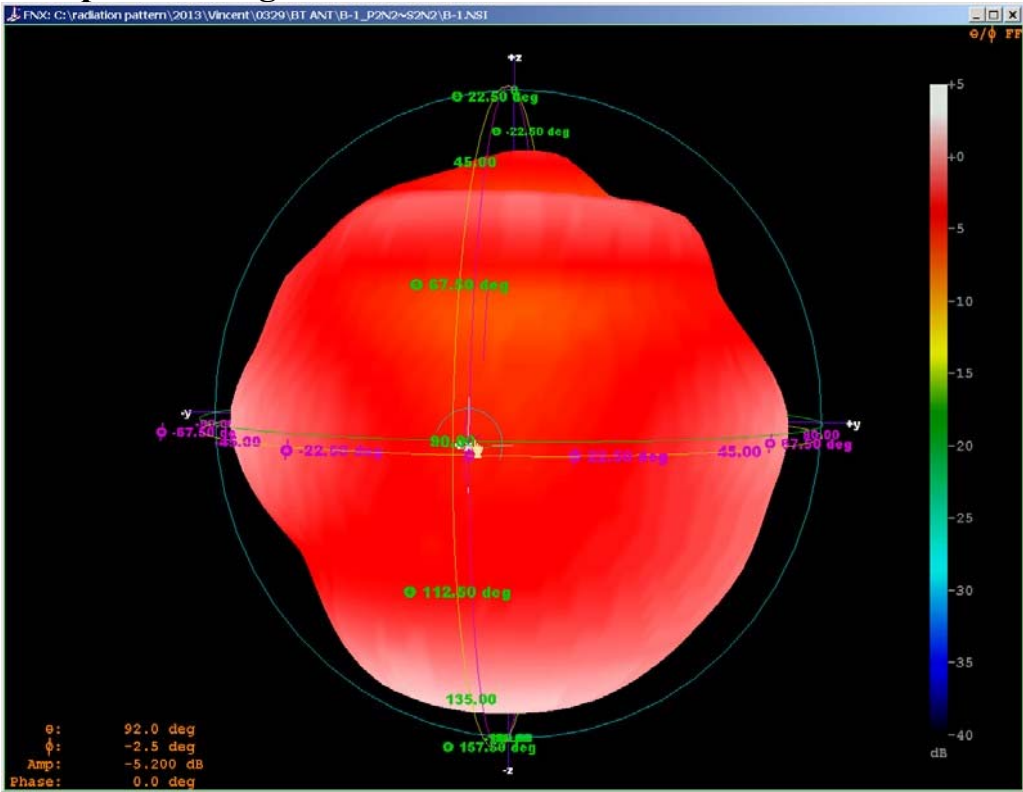
Gain Table

| 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%      |

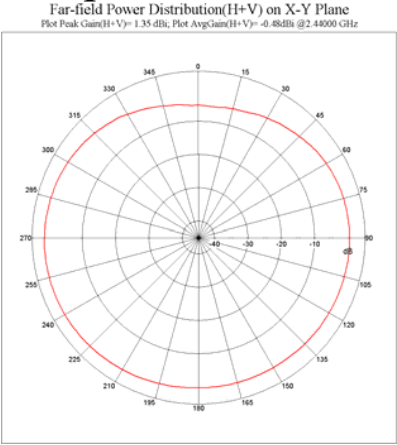
Return Loss



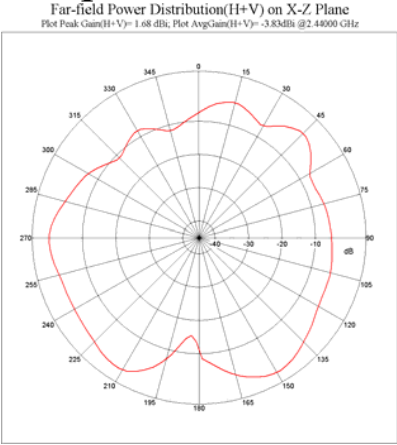
3D radiation pattern diagram



XY-plane



XZ-plane



YZ-plane

