I. Antenna Spec.

I.1 Spec

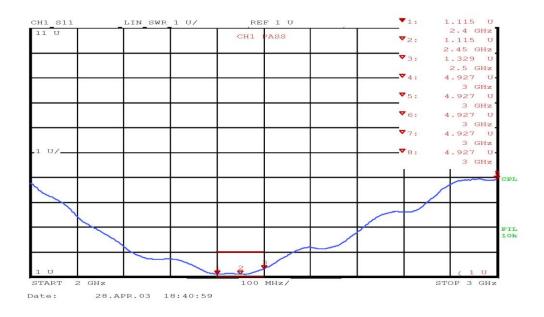
| Item | Spec | | |
|------------------|---|--|--|
| Frequency range | 2.4 ~ 2.5GHz | | |
| VSWR | ≤ 2 | | |
| Null point check | Any 30° angle range can't have null depth | | |

| Average Gain (dBi) | | | Peak Gain (dBi) | | |
|--------------------|-----------|--------|-----------------|-----------|--------|
| 2.4GHz | 2.45GHz 2 | 2.5GHz | 2.4GHz | 2.45GHz 2 | 2.5GHz |
| ≧-4 | ≧-4 | ≧-4 | ≦3 | ≦3 | ≦3 |

III. Antenna test report

III.1 VSWR

| VSWR | | | Pass/NG |
|----------|-------|--------|-----------|
| 2.4GHz 2 | 45GHz | 2.5GHz | 1 255/110 |
| 1.12 | 1.12 | 1.33 | Pass |

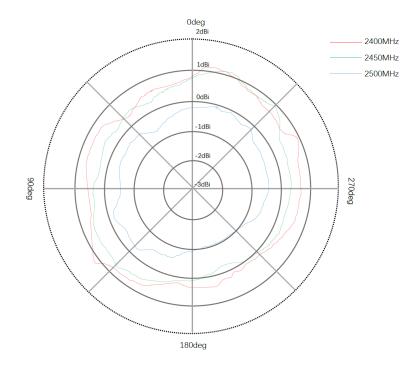


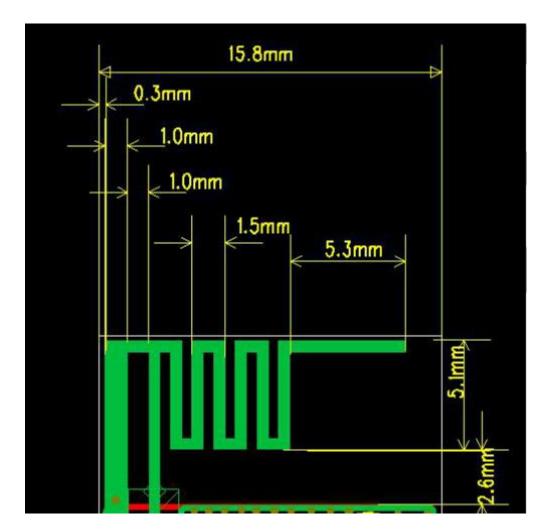
Manufacturer: National State Industries Limited XinXing Group, WuLian Village, FengGang Town, DongGuan City, Guangdong Province, 523695 China

Test setup: Antenna on elevation angle $\theta=0^\circ$ azimuth plane

| Average Gain (dBi) | | Peak Gain (dBi) | | | Pass | |
|--------------------|------------|-----------------|-----------|------------|-------|------|
| 2.4GHz 2. | 45GHz 2.50 | Hz | 2.4GHz 2. | 45GHz 2.50 | Hz | /NG |
| -1.41 | -2.44 | -2.67 | 1.22 | 1.20 | -0.02 | Pass |

Pattern





| IB (G | iainTotal) |
|-------|--------------|
| | 9.1913e-001 |
| | 2.5716e-001 |
| | -4.0481e-001 |
| | -1.0668e+000 |
| | -1.7287e+000 |
| | -2.3907e+000 |
| | -3.0527e+000 |
| | -3.7147e+000 |
| | -4.3766e+000 |
| | -5.0386e+000 |
| | -5.7006e+000 |
| | -6.3625e+000 |
| | -7.0245e+000 |
| | -7.6865e+000 |
| | -8.3484e+000 |
| | -9.0104e+000 |
| | -9.6724e+000 |

