

## I. Antenna Spec.

### I.1 Spec

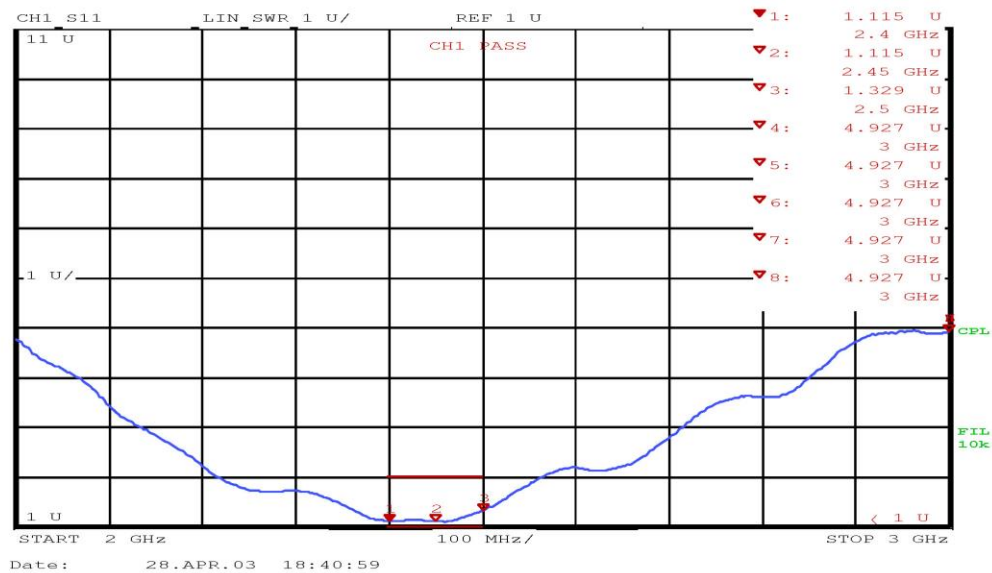
| Item             | Spec                                      |
|------------------|---|
| Frequency range  | 2.4 ~ 2.5GHz                              |
| VSWR             | $\leq 2$                                  |
| Null point check | Any 30° angle range can't have null depth |

| Average Gain (dBi) |           |           | Peak Gain (dBi) |          |          |
|--------------------|-----------|-----------|-----------------|----------|----------|
| 2.4GHz             | 2.45GHz   | 2.5GHz    | 2.4GHz          | 2.45GHz  | 2.5GHz   |
| $\geq -4$          | $\geq -4$ | $\geq -4$ | $\leq 3$        | $\leq 3$ | $\leq 3$ |

## III. Antenna test report

### III.1 VSWR

| VSWR   |         |        | Pass/NG |
|--------|---------|--------|---------|
| 2.4GHz | 2.45GHz | 2.5GHz |         |
| 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 | 2.5GHz | 2.4GHz          | 2.45GHz | 2.5GHz | /NG  |
| -1.41              | -2.44   | -2.67  | 1.22            | 1.20    | -0.02  | Pass |

*Pattern*

