

# Antenna data sheet

|               |                                                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer: | Shenzhen Tengyufei electronic Technology Co., LTD                                                                                                                               |
| Address:      | Tengyufei Electronics, 2nd Floor, Building 2, Yaguo Pujing Zhichuang Park, No.18 Pai Fang Road, Kengzi 138 Industrial Zone, Pingshan New District, Shenzhen, Guangdong Province |
| Model:        | B70L                                                                                                                                                                            |
| Date:         | October 12, 2024                                                                                                                                                                |
| Versions:     | V1.0                                                                                                                                                                            |

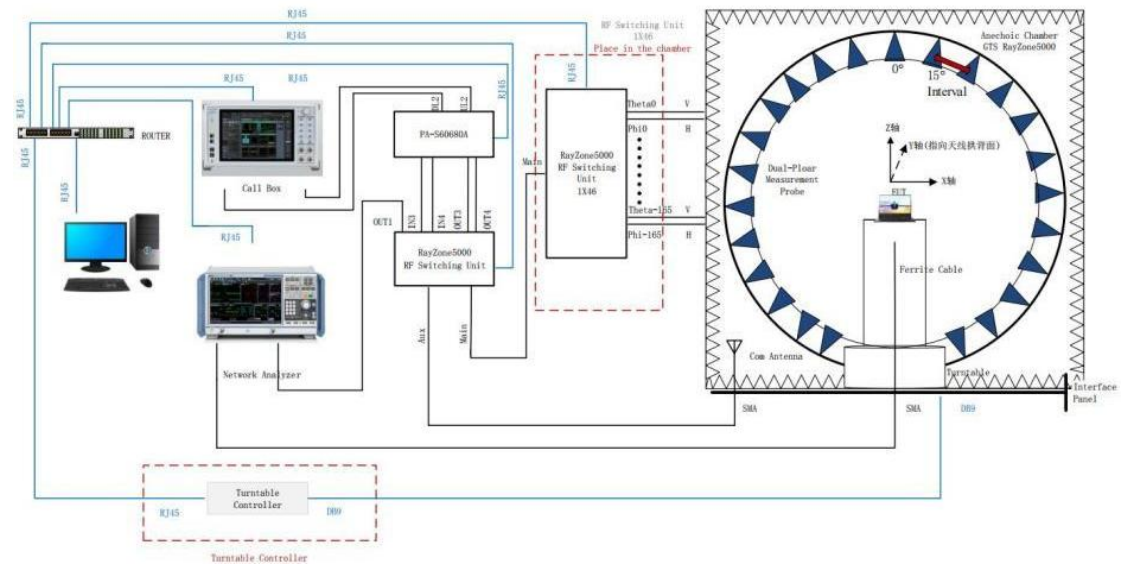
1. Ant Size:



2. Test equipment list

| name                               | Manufacturer | Model        |
|------------------------------------|--------------|--------------|
| Network analyzer                   | KEYSIGHT     | E5071C       |
| Network analyzer                   | KEYSIGHT     | E5071C       |
| Comprehensive Measuring Instrument | R&S          | CWM500       |
| OTA test system                    | GTS          | RayZone-5000 |

## Test setup



## 3. Performance parameter

|                 |              |
|-----------------|--------------|
| Frequency range | 2400-2500MHz |
| VSWR            | $\leq 7.0$   |
| Input impedance | 50 $\Omega$  |
| Peak Gain(dBi)  | 1.64dBi      |
| Antenna type    | External     |
| Temperature     | -40~80       |

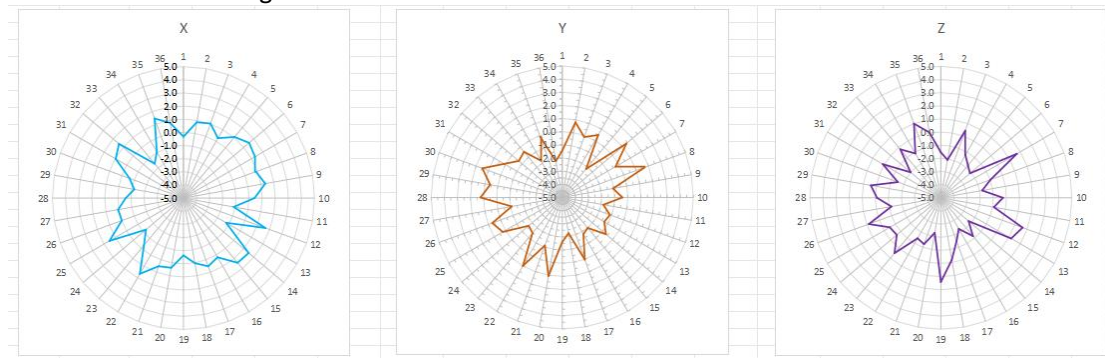
## 4. VSWR Test Data

| Frequency(MHz) | Return Loss | VSWR |
|----------------|-------------|------|
| 2400           | -8.73       | 2.16 |
| 2450           | -11.76      | 1.71 |
| 2500           | -11.21      | 1.77 |

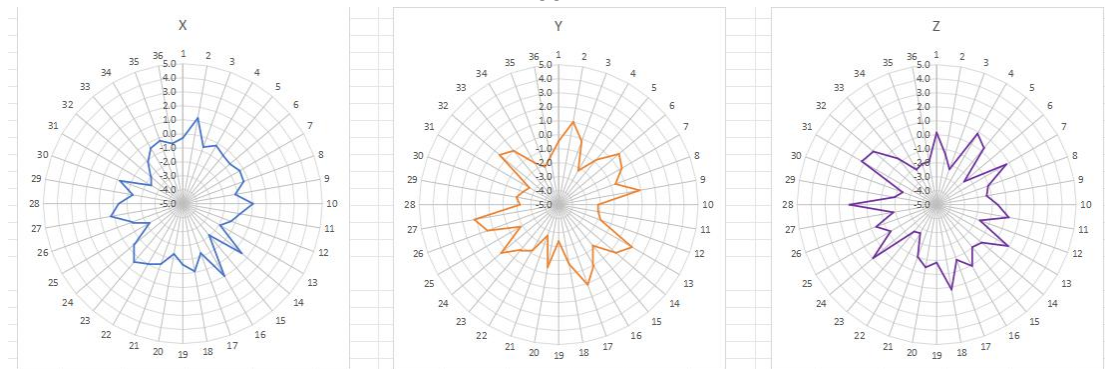
### 5. Gain and Effi

| Frequency(MHz) | Effi | Peak Gain |
|----------------|------|-----------|
| 2400           | 1.66 | 1.64      |
| 2410           | 1.50 | 1.28      |
| 2420           | 1.45 | 1.15      |
| 2430           | 1.30 | 1.03      |
| 2440           | 1.41 | 1.24      |
| 2450           | 1.61 | 1.30      |
| 2460           | 1.43 | 1.01      |
| 2470           | 1.51 | 0.87      |
| 2480           | 1.30 | 1.50      |
| 2490           | 1.42 | 0.91      |
| 2500           | 1.34 | 0.96      |

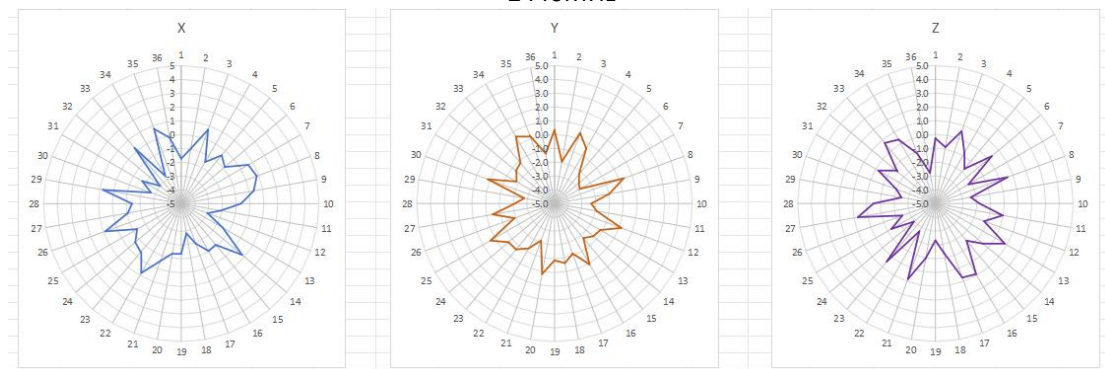
## 6. Test Directional diagram



2400MHz



2440MHz



2500MHz

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