

# 深圳市千目通讯科技有限公司

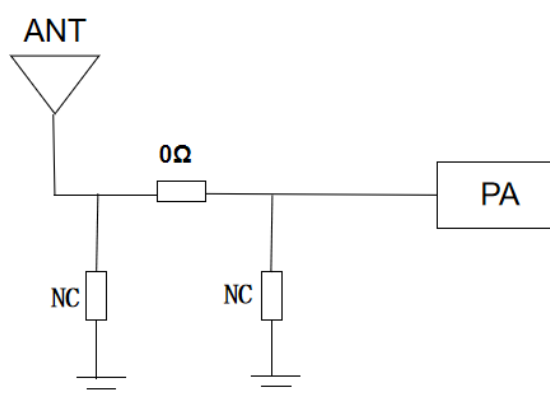
Shenzhen Qianmu Communication Technology Co.,Ltd.

## Antenna Acknowledgement

|                           |                       |                             |                                  |
|---------------------------|-----------------------|-----------------------------|----------------------------------|
| Applicable model          | T3                    |                             |                                  |
| Customer                  | Core element          |                             |                                  |
| Specification description |                       |                             |                                  |
|                           | Product content       | Specification               | Customer material code           |
| Specification description | 868-915MHz<br>Antenna | External glue stick antenna |                                  |
| Change of resume          |                       |                             |                                  |
| Serial number             | Date                  | Version                     | Brief description of the changes |
| 1                         | 2024-11-21            | V1.0                        | New project                      |
| 2                         |                       |                             |                                  |
| 3                         |                       |                             |                                  |

|                                             |           |         |              |         |       |
|---------------------------------------------|-----------|---------|--------------|---------|-------|
| Supplier sample confirmation                |           |         |              |         |       |
| Research and development                    | Structure | Audit   | Judgement    |         |       |
|                                             |           |         | PASS<br>FAIL |         |       |
| Customer sample confirmation                |           |         |              |         |       |
| Electron                                    | Structure | Project | Procurement  | Quality | Audit |
|                                             |           |         |              |         |       |
| Reasons for rejection or other precautions: |           |         |              |         |       |

## 1、 Matching circuit-main antenna

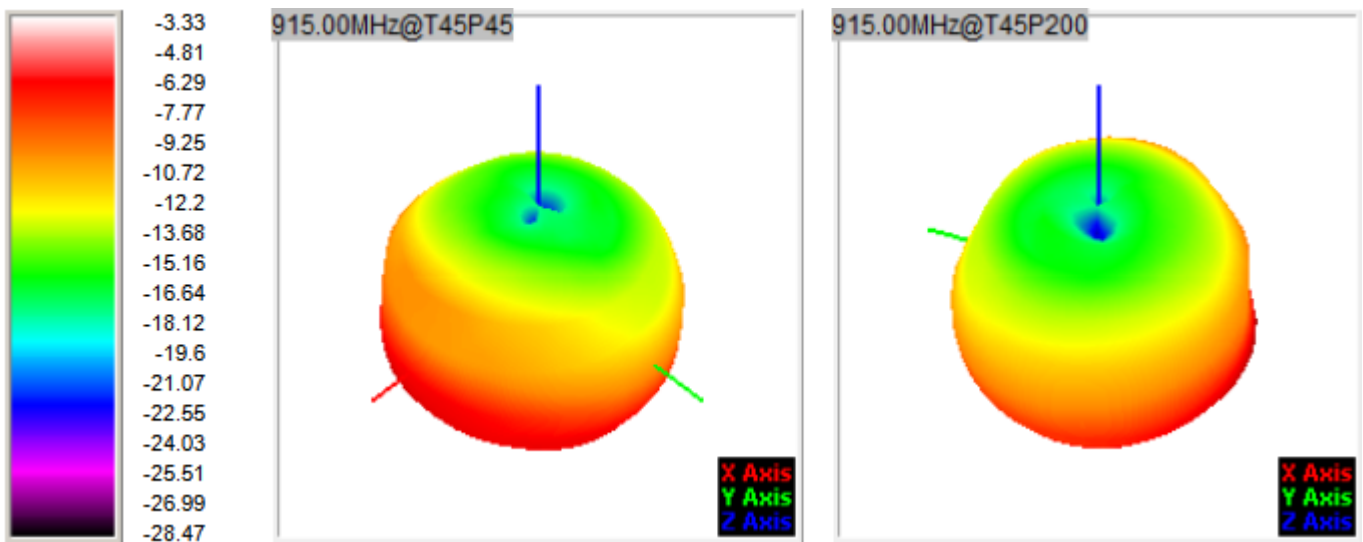


No changes have been made to your original matching circuit

## 2、 Antenna efficiency and gain

| Frequency ID               | 1      | 2      | 3      | 4      | 5      | 6      |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)            | 865.0  | 875.0  | 885.0  | 895.0  | 905.0  | 915.0  |
| Ant. Port Input Pwr. (dBm) | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| Tot. Rad. Pwr. (dBm)       | -8.70  | -8.58  | -8.45  | -8.21  | -8.19  | -7.96  |
| Peak EIRP (dBm)            | -5.18  | -4.69  | -4.34  | -3.72  | -3.53  | -3.33  |
| Directivity (dBi)          | 3.52   | 3.90   | 4.12   | 4.49   | 4.66   | 4.62   |
| Efficiency (dB)            | -8.70  | -8.58  | -8.45  | -8.21  | -8.19  | -7.96  |
| Efficiency (%)             | 13.50  | 13.90  | 14.30  | 15.10  | 15.20  | 16.00  |
| Gain (dBi)                 | -5.18  | -4.69  | -4.34  | -3.72  | -3.53  | -3.33  |
| NHPRP $\pm\pi/4$ (dBm)     | -9.75  | -9.64  | -9.51  | -9.26  | -9.24  | -9.00  |
| NHPRP $\pm\pi/6$ (dBm)     | -11.13 | -10.99 | -10.84 | -10.58 | -10.57 | -10.35 |
| NHPRP $\pm\pi/8$ (dBm)     | -12.07 | -11.87 | -11.71 | -11.46 | -11.47 | -11.30 |
| Upper Hem. PRP (dBm)       | -14.12 | -14.05 | -14.06 | -13.98 | -14.12 | -13.99 |
| Lower Hem. PRP (dBm)       | -10.17 | -10.03 | -9.85  | -9.54  | -9.47  | -9.20  |
| Upper Hem. PRP (%)         | 3.87   | 3.93   | 3.93   | 4.00   | 3.87   | 3.99   |
| Lower Hem. PRP (%)         | 9.62   | 9.92   | 10.35  | 11.11  | 11.31  | 12.02  |

3、Antenna pattern



4、Engineering drawing

