

➤ **Customer:** Duoke

➤ **Project:** DK094B

➤ **ME:** Xiao Xiang

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➤ **RF:** Huang RiXin

TEL- 13682667404

➤ **Date:** March 10, 2025

Manufacturer:Shenzhen Xinbinuo Communication Technology Co., Ltd
No. 25, 3rd Floor, Area A, Ping'an Avenue, 171th Street, Pinghu Subdistrict, Longgang District, Shenzhen City

Catalogue

| | |
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1. Basic information

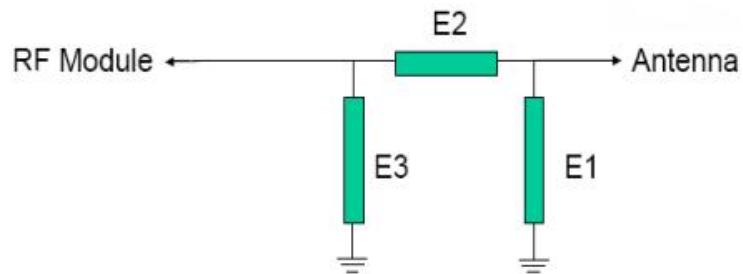
Frequency band:

Others:

802.11.a/b/g/n/ax 2.4G/5G, Bluetooth.

2. Matching circuit

antenna



| Element | Value |
|-----------|------------|
| E1 (0201) | NA |
| E2 (0201) | 0 Ω |
| E3 (0201) | NA |

3. Antenna return loss



4. Gain

| Band | Avg Gain/dBi | Peak Gain/dBi |
|--------------|--------------|---------------|
| 2400-2500MHz | -4.25 | 1.38 |
| 5150-5845MHz | -5.11 | 2.46 |

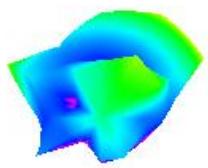
5.OTA

5.1 Antenna OTA

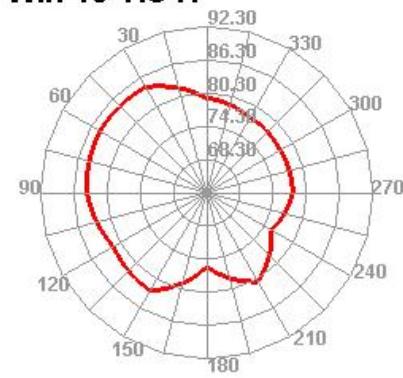
| Band | Channel | TRP/dBm | TIS/dBm |
|---------------|---------|---------|---------|
| 2. 4-b (11M) | 1 | 11. 4 | |
| | 6 | 11. 9 | |
| | 13 | 12. 2 | -82. 3 |
| 2. 4-g (54M) | 1 | 11. 5 | |
| | 6 | 12. 0 | |
| | 13 | 12. 2 | -70. 7 |
| 2. 4-n (MCS7) | 1 | 11. 3 | |
| | 6 | 12. 1 | |
| | 13 | 12. 4 | -65. 6 |
| 5-a (54M) | 36 | 11. 9 | |
| | 149 | 13. 3 | |
| | 165 | 12. 1 | -71. 3 |
| 5-n (MCS7) | 36 | 11. 1 | |
| | 149 | 13. 4 | |
| | 165 | 12. 3 | -67. 7 |
| 5-ax (MCS8) | 36 | 11. 0 | |
| | 149 | 13. 1 | |
| | 165 | 12. 2 | -64. 4 |

5.2 Passive

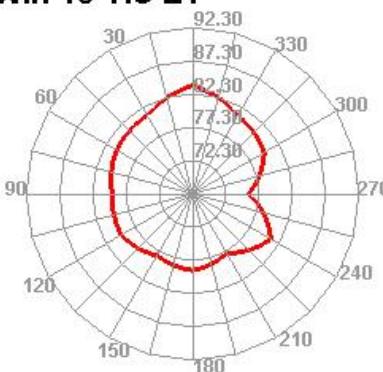
Wifi 13 TIS



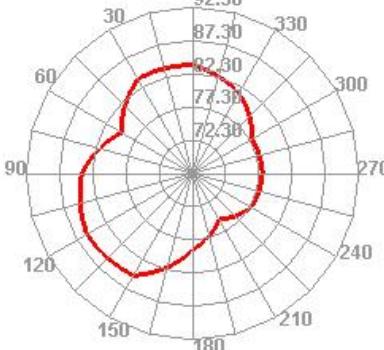
Wifi 13 TIS H



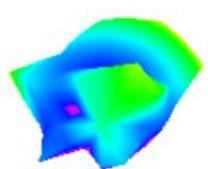
Wifi 13 TIS E1



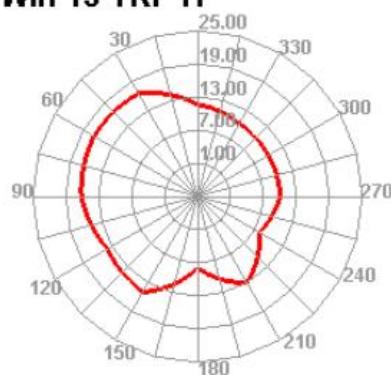
Wifi 13 TIS E2



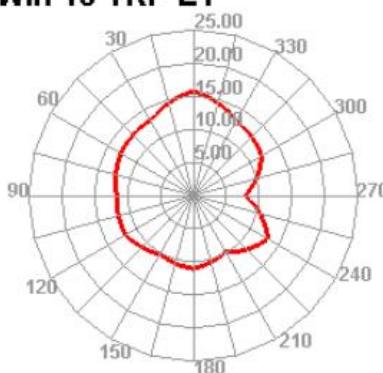
Wifi 13 TRP



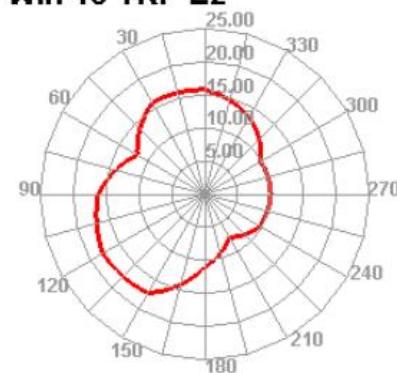
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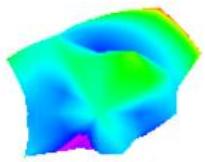
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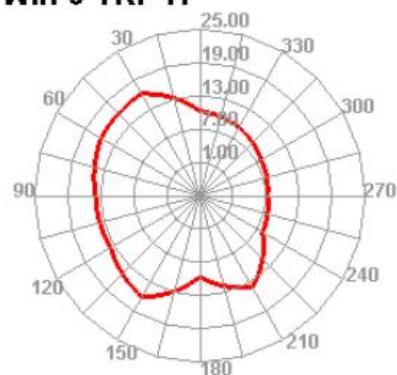
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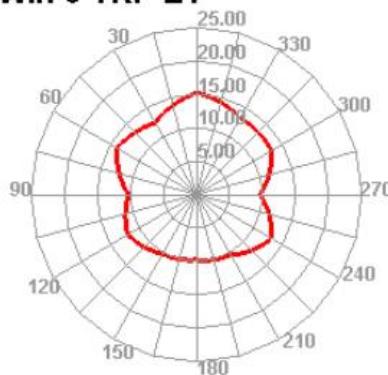
Wifi 6 TRP



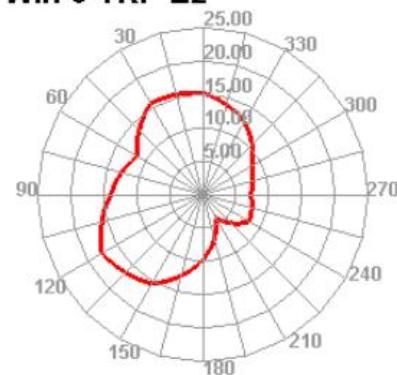
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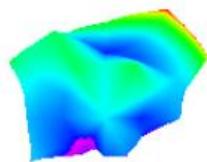
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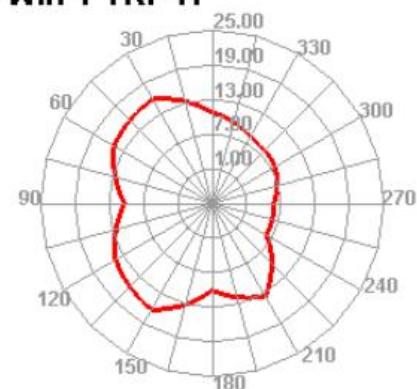
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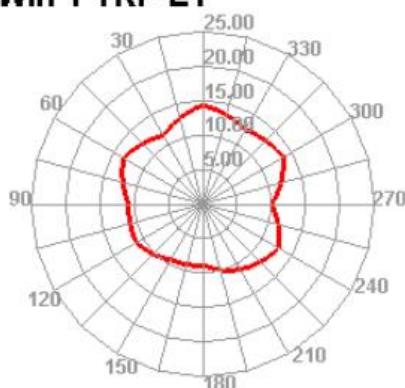
Wifi 1 TRP



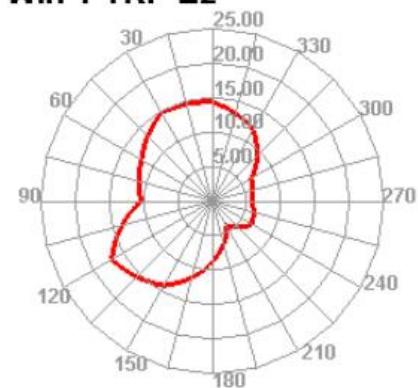
Wifi 1 TRP H



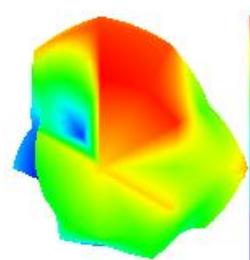
Wifi 1 TRP E1



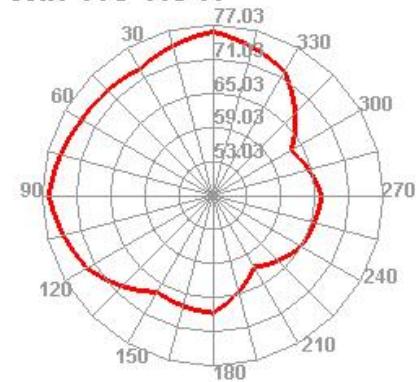
Wifi 1 TRP E2



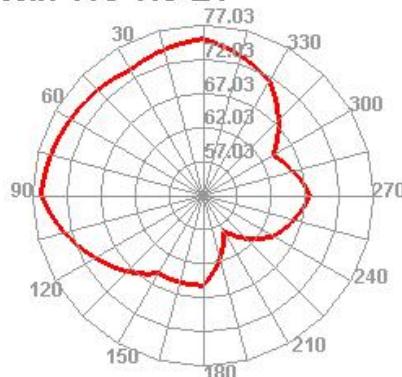
Wifi 165 TIS



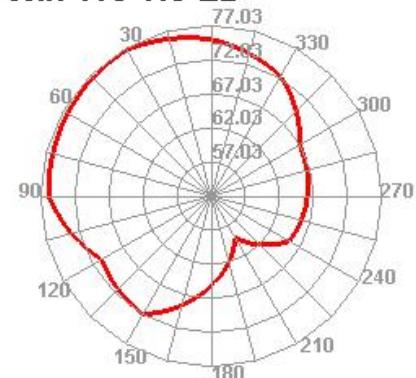
Wifi 165 TIS H



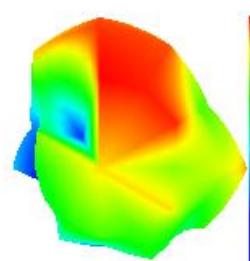
Wifi 165 TIS E1



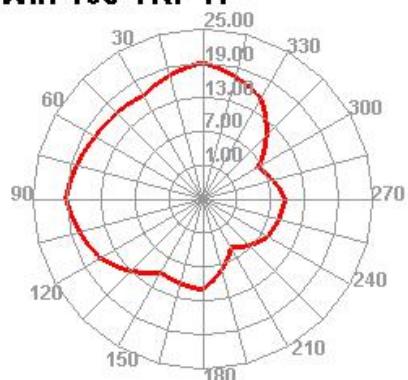
Wifi 165 TIS E2



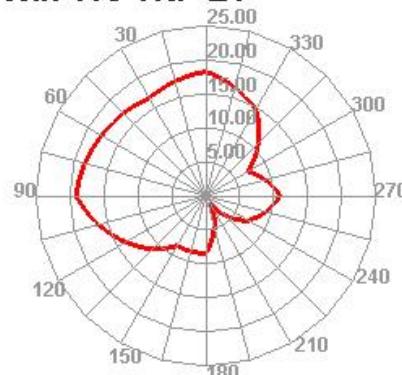
Wifi 165 TRP



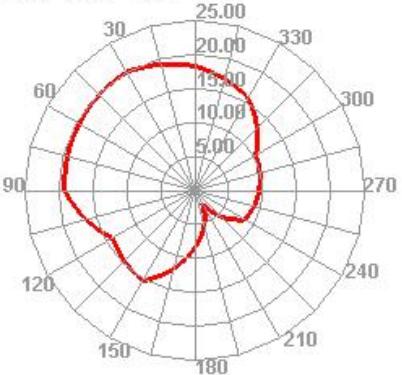
Wifi 165 TRP H



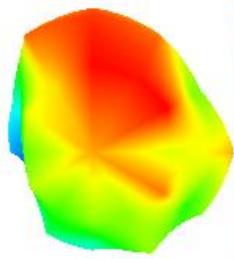
Wifi 165 TRP E1



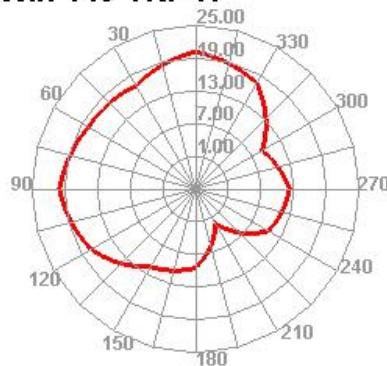
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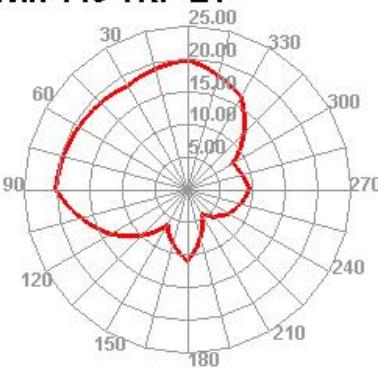
Wifi 149 TRP



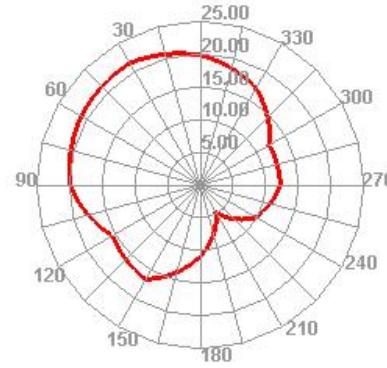
Wifi 149 TRP H



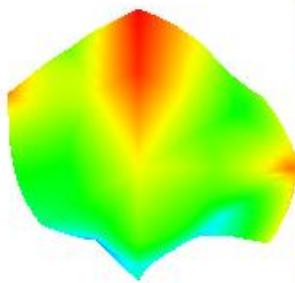
Wifi 149 TRP E1



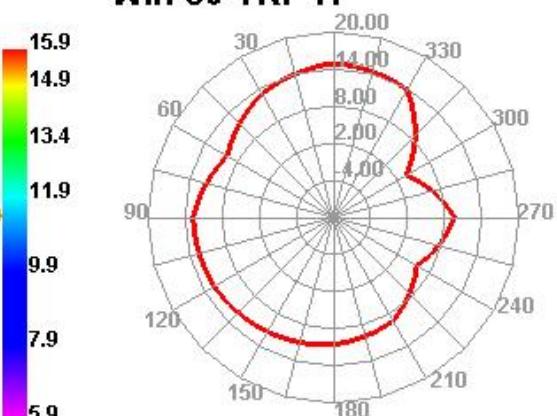
Wifi 149 TRP E2



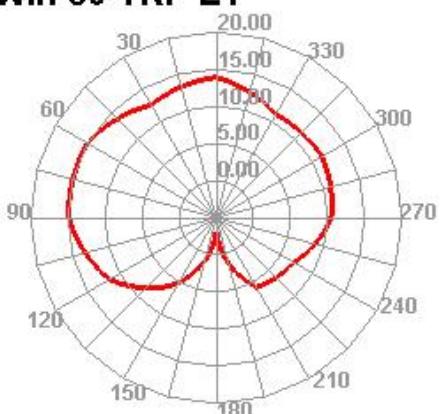
Wifi 36 TRP



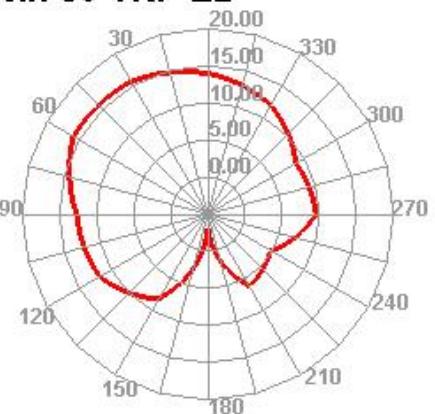
Wifi 36 TRP H



Wifi 36 TRP E1



Wifi 36 TRP E2



6. EMC optimization

Stick 1.5MM conductive cloth in the exposed copper area, be careful not to short circuit.

