



Q1K天线规格书  
Q1K Antenna Specification

|                        |                                                                                                                    |                      |            |
|------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------|------------|
| 客户名称<br>Customer       | 深圳市美迪飞科技有限公司<br>Shenzhen Mediafly Technology CO.,LTD                                                               | 日期<br>Data           | 2025/02/10 |
| 产品名称<br>Product        | WIFI/BT Antenna                                                                                                    | 客户机型<br>Models       | Q1K        |
| 料号<br>P/N              | F529-13RB-165                                                                                                      | 客户料号<br>Customer P/N | V10A-032   |
| 规格描述<br>Specifications | 黑色FPC; RF0.81三代端子黑色同轴线,长度L=165mm<br>Black FPC; RF0.81 Third Generation Terminal Black Coaxial Line, Length L=165mm |                      |            |

|                               |  |                                                      |  |
|-------------------------------|--|------------------------------------------------------|--|
| 供应商承认签印<br>Vender Approved By |  | 客户承认签印<br>Customer Approved By                       |  |
|                               |  | 深圳市美迪飞科技有限公司<br>Shenzhen Mediafly Technology CO.,LTD |  |
| Checked By:                   |  | Checked By:Ken.Zhang                                 |  |
| Audit By:                     |  | Audit By: DongHun.Liu                                |  |
| Approval By:                  |  | Approval By:                                         |  |

| 文件修订履历表<br>Document Revision History Table |                            |                |                |              |            |
|--------------------------------------------|----------------------------|----------------|----------------|--------------|------------|
| 版本<br>Version                              | 修订内容<br>Revise The Content | 修订人<br>Revused | 核准<br>Approval | 修订日期<br>Date | 备注<br>Note |
|                                            |                            |                |                |              |            |
|                                            |                            |                |                |              |            |
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## Specification

### 1.1 Electrical Properties

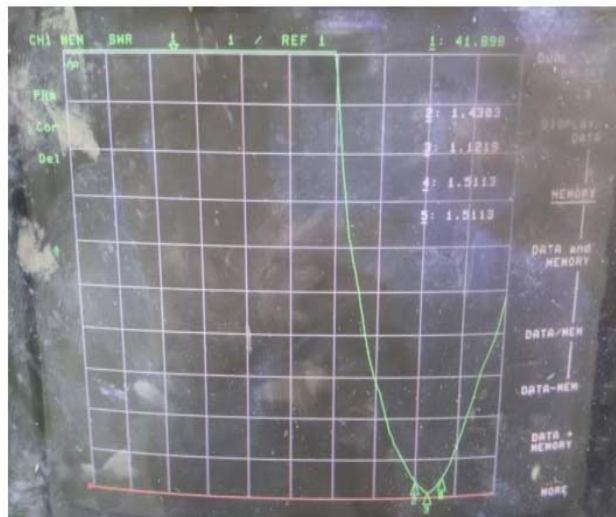
| Characteristics | Specifications |
|-----------------|----------------|
| Working Band    | 2.4G WiFi/BT   |
| Antenna From    | FPC antenna    |
| Impedance       | 50 $\Omega$    |
| Polarization    | Linear         |
| Peak Effi       | 63%@2.4G       |
| Peak Gain       | 1.98dBi@2.4G   |

### 1.2 Physical Properties

| Characteristics | Specifications |
|-----------------|----------------|
| Operating Temp  | -10°C~+60°C    |
| Storage Temp    | -10°C~+70°C    |
| Humidity        | 10~95%RH       |

## Test Data

### S11 Parameter-VSWR



| Frequency (MHZ)  | 2400   | 2450   | 2483   |
|------------------|--------|--------|--------|
| VSWR             | 1.43   | 1.12   | 1.51   |
| Return Loss (DB) | -15.03 | -24.81 | -13.84 |

### Efficiency Table (2.4G)

#### Passive Test For WIFI2.4

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHIS (%) | Max (dB) | Min (dB) |
|------------|----------|-----------|------------|------------|---------|----------|----------|----------|
| 2400       | 63.51    | -1.97     | 1.98       | -0.17      | 28.496  | 35.014   | 1.98     | -13.82   |
| 2410       | 61.6     | -2.1      | 1.81       | -0.34      | 27.845  | 33.755   | 1.81     | -13.36   |
| 2420       | 59.89    | -2.23     | 1.64       | -0.51      | 26.988  | 32.902   | 1.64     | -12.93   |
| 2430       | 57.88    | -2.37     | 1.4        | -0.75      | 25.894  | 31.99    | 1.4      | -12.94   |
| 2440       | 58.73    | -2.31     | 1.37       | -0.78      | 25.724  | 33.009   | 1.37     | -12.93   |
| 2450       | 59.77    | -2.24     | 1.48       | -0.67      | 25.599  | 34.169   | 1.48     | -13.61   |
| 2460       | 60       | -2.22     | 1.56       | -0.59      | 25.166  | 34.83    | 1.56     | -14.5    |
| 2470       | 59.08    | -2.29     | 1.57       | -0.58      | 24.508  | 34.569   | 1.57     | -14.96   |
| 2480       | 58.93    | -2.3      | 1.61       | -0.54      | 24.269  | 34.66    | 1.61     | -14.81   |
| 2490       | 59.76    | -2.24     | 1.68       | -0.47      | 24.697  | 35.059   | 1.68     | -13.95   |
| 2500       | 56.83    | -2.45     | 1.44       | -0.71      | 23.451  | 33.382   | 1.44     | -13.36   |

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng\_Vis@126.com

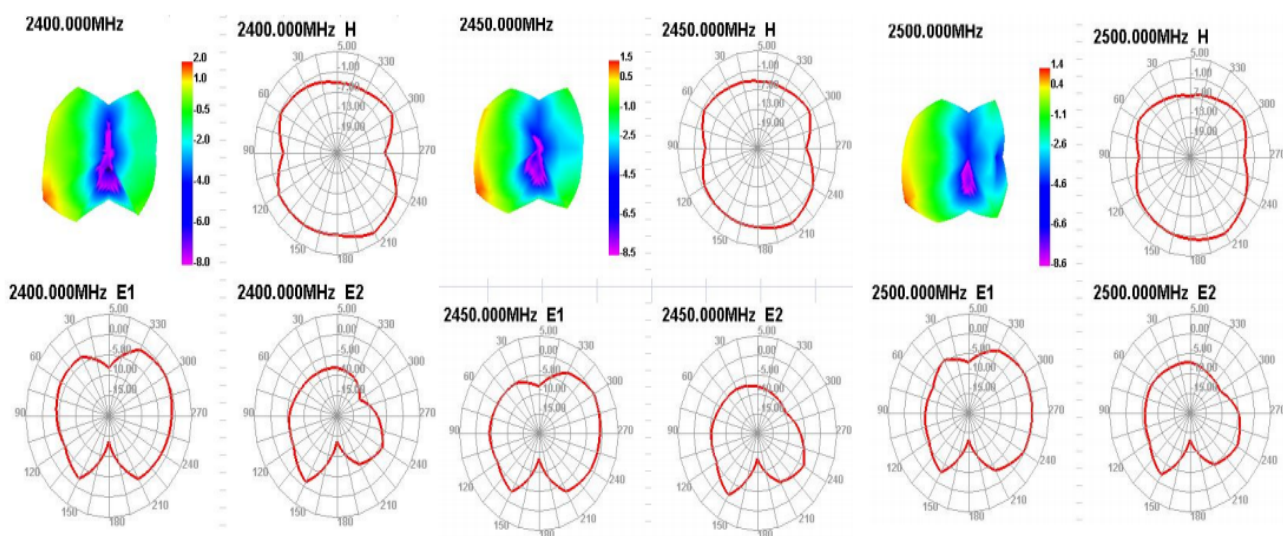


深圳星源创科技有限公司

ANTENNA

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

### Radiation Pattern(2.4G)



### WiFi Active Test Data

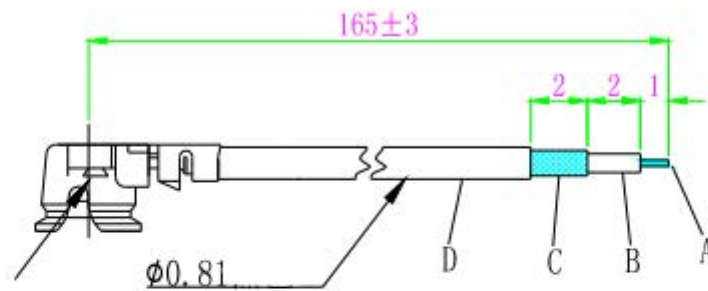
| 802.11b | Frequency | TRP         |       | TIS         |        |
|---------|-----------|-------------|-------|-------------|--------|
|         | 2412      | CH1 11Mbps  | 17.14 | CH1 11Mbps  | -85.99 |
|         | 2437      | CH6 11Mbps  | 16.26 | CH6 11Mbps  | -83.09 |
|         | 2467      | CH11 11Mbps | 16.48 | CH11 11Mbps | -84.74 |

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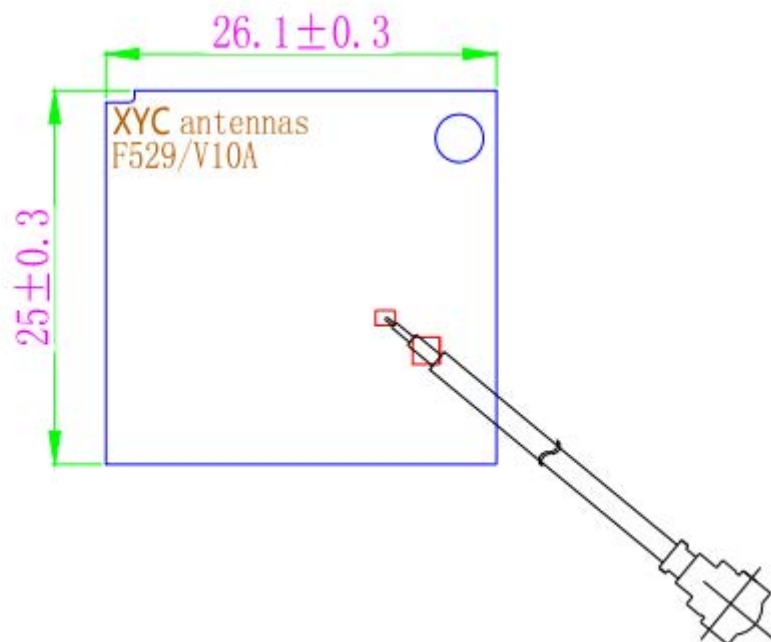
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## Antenna Assembly



A - Center conductor    B - Dielectric  
C - Outer conductor    D - Jacket



unit: mm