



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Q1K天线规格书

Q1K Antenna Specification

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

供应商承认签印 Vender Approved By		客户承认签印 Customer Approved By	
		深圳市美迪飞科技有限公司 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 Document Revision History Table					
版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

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Specification

1.1 Electrical Properties

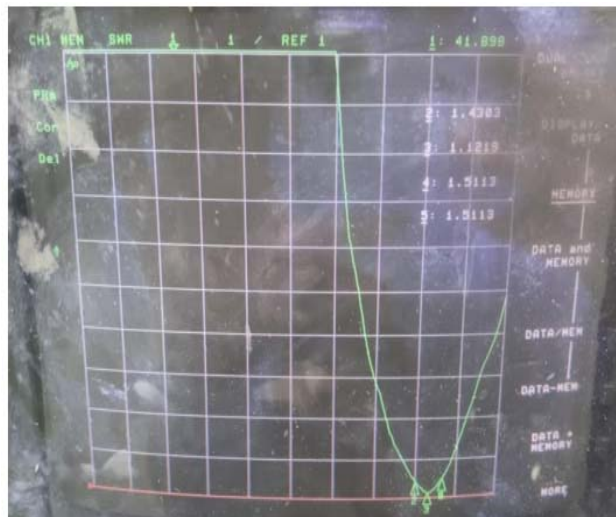
Characteristics	Specifications
Working Band	2.4G WiFi/BT
Antenna From	FPC antenna
Impedance	50 Ω
Polarization	Linear
Peak Effi	63%@2.4G
Peak Gain	1.98dBi@2.4G

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

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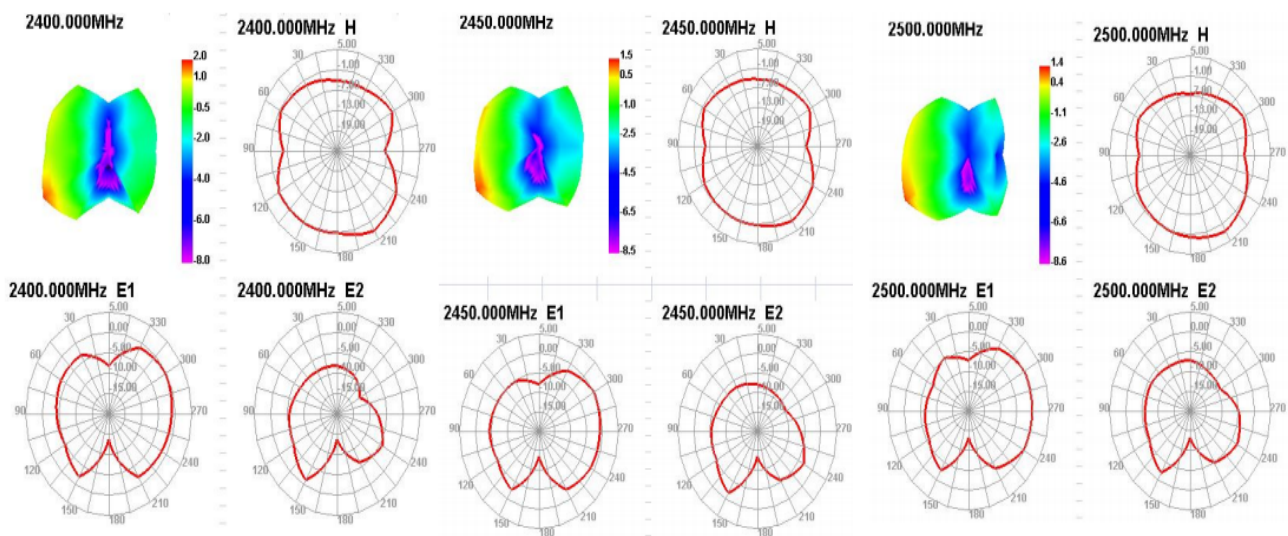


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ANTENNA

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Radiation Pattern(2.4G)



WiFi Active Test Data

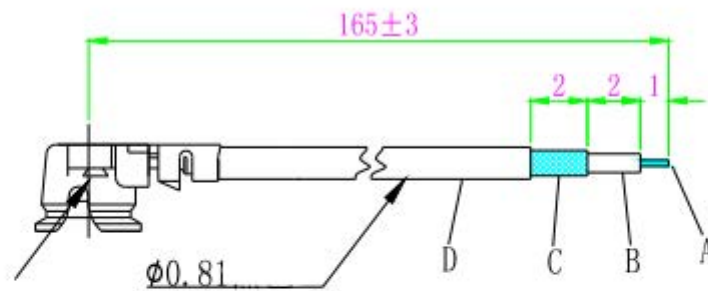
802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	17.14	CH1 11Mbps	-85.99
	2437	CH6 11Mbps	16.26	CH6 11Mbps	-83.09
	2467	CH11 11Mbps	16.48	CH11 11Mbps	-84.74

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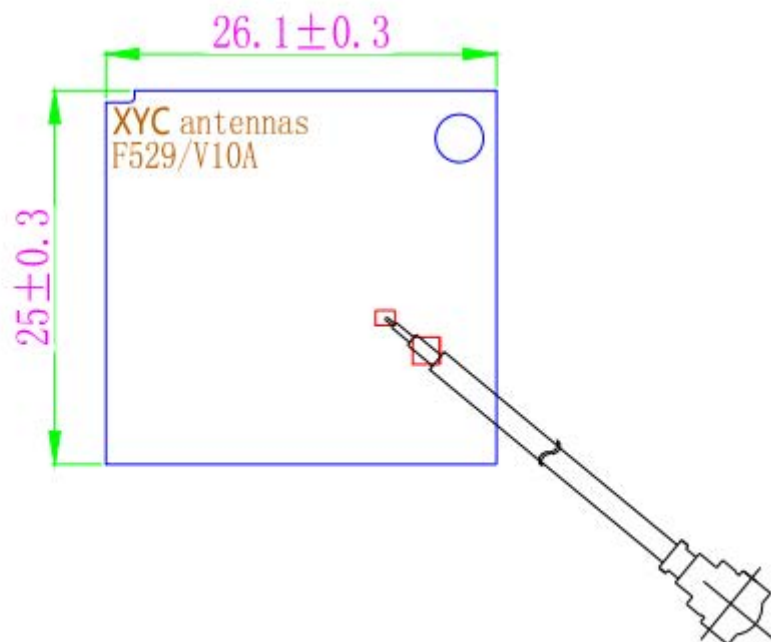
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Antenna Assembly



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



unit: mm