

Antenna Specification / 天线规格书

Model: QQF1483 | 2.4 GHz Radio Control System

This specification uses the supplied Inverted F Antenna Specification test report as the electrical reference. The construction figure below is replaced with the client-supplied PCB antenna rendering.

Product Antenna Identification

Item / 项目	Declared value / 声明值	Status / 状态
Product model / 产品型号	QQF1483	Confirmed from provided project material
Applicable unit / 适用部件	TX remote controller (intentional transmitter); RX vehicle receiver companion unit	Confirmed from TX/RX folders and PCB filenames
Antenna type / 天线类型	Integral PCB printed inverted-F antenna with meandered trace / 板载 PCB 蛇形倒 F 印刷天线	Supplied test report and client-supplied PCB render
Antenna location / 天线位置	Printed trace on the PCB edge/ground area as shown in Figure 1	Client-supplied PCB antenna render
Antenna connector / 天线连接器	None	Integral PCB antenna; no detachable RF connector declared
Report model / 报告型号	2.4G ANT	倒 F 天线测试报告.pdf
Manufacturer / 制造商	ZHUHAI JIELI TECHNOLOGY CO., LTD	倒 F 天线测试报告.pdf
TX PCB ANT footprint / TX PCB 天线包络	11.00 mm (W) x 7.90 mm (H)	QQF1483-TX.PCB ANT net
RX PCB ANT footprint / RX PCB 天线包络	9.93 mm (W) x 11.00 mm (H)	QQF1483-RX.PCB ANT net
PCB trace width / PCB 走线宽度	0.50 mm (TX and RX)	QQF1483-TX.PCB and QQF1483-RX.PCB ANT net
PCB ANT centerline / PCB 天线中心线长度	43.42 mm (TX); 44.43 mm (RX)	Calculated from supplied PCB ANT net segments
Report antenna length / 报告天线长度	38.20 mm (report reference only)	倒 F 天线测试报告.pdf summary; not used as PCB dimension
Maximum antenna gain / 最大天线增益	-0.58 dB (source report unit; commonly stated as dBi for antenna gain)	倒 F 天线测试报告.pdf; reported at 2500 MHz, horizontal orientation

PCB Antenna Render / PCB 天线渲染图

Figure 1 is the client-supplied image of the PCB antenna size and shape. The dimension panel is derived from the ANT net in the supplied TX/RX PCB files; the image itself is not used to infer scale.

CLIENT-SUPPLIED PCB ANTENNA SHAPE

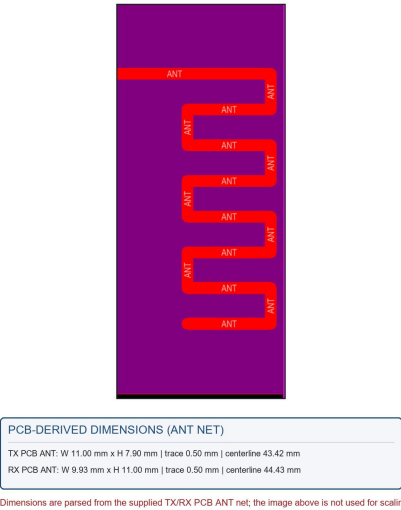


Figure 1. Integral PCB printed inverted-F antenna shape with PCB-derived dimensions / 图 1 板载 PCB 蛇形倒 F 印刷天线形状及 PCB 尺寸

Electrical Specifications

Parameter / 参数	Specification / 规格	Source / 依据
Antenna frequency range / 天线频率范围	2400-2500 MHz	倒 F 天线测试报告.pdf
Product channel range / 产品工作信道范围	2404-2479 MHz; 2404 MHz is the pairing channel	DEFAULT_CHANNEL and TX/RX firmware hopping algorithm
RF test frequencies / 认证测试频点	2404 MHz / 2441 MHz / 2479 MHz	Client certification instruction and firmware test constants
Polarization / 极化	Horizontal and vertical / 水平及垂直极化	倒 F 天线测试报告.pdf
Azimuth beam pattern / 方位面方向图	Omni-directional / 全向	倒 F 天线测试报告.pdf
Impedance / 阻抗	50 Ohm	倒 F 天线测试报告.pdf
VSWR / 驻波比	Not stated in the supplied test report / 报告未提供	倒 F 天线测试报告.pdf
Maximum power setting / 最大功率设置	0 dBm firmware RF setting	TX firmware configuration; not a measured antenna input power

Reported Gain Results / 报告增益结果

Orientation / 方向	2400 MHz	2450 MHz	2500 MHz	Source / 依据
Horizontal / 水平	-1.26174 dB	-0.765802 dB	-0.585582 dB	倒 F 天线测试报告.pdf
Vertical / 垂直	-5.2537 dB	-2.4652 dB	-1.86120 dB	倒 F 天线测试报告.pdf

Final Product Confirmation

- Confirm that the production PCB antenna geometry, ground plane and RF matching network correspond to the antenna configuration covered by the supplied test report.
- Retain clear photos of the finished TX PCB and RX PCB with the antenna area marked.
- Provide a VSWR/S11 measurement only if requested by the certification body, because the supplied report does not state this result.
- Confirm that no alternate antenna is supplied or user-replaceable.

Construction dimensions in this document are derived from the supplied TX/RX PCB ANT net data. The report's 38.20 mm antenna-length value is retained as a report reference only; it is not substituted for the PCB-derived TX/RX dimensions. The client-supplied image is used only for shape reference.

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Date / 日期	____2026.8.19____