

SPECIFICATION FOR APPROVAL

Customer Name: Trakitall Ltd

Customer P/N:

PRODUCT P/N:

PRODUCT NAME: Curl Master Remote

Factory signature and seal

SIGN	(ME) 研发部	(RF)	(Editor)
	Engineer Huang	Engineer Zhuang	Engineer Zhu

客户签章

SIGN	(PM)	(ME)	(DQE)

Revise Record

Version	Record of change	Made	Approve	Date
V1	Initial issuance	Engineer Huang	Engineer Zhuang	2025.07.25

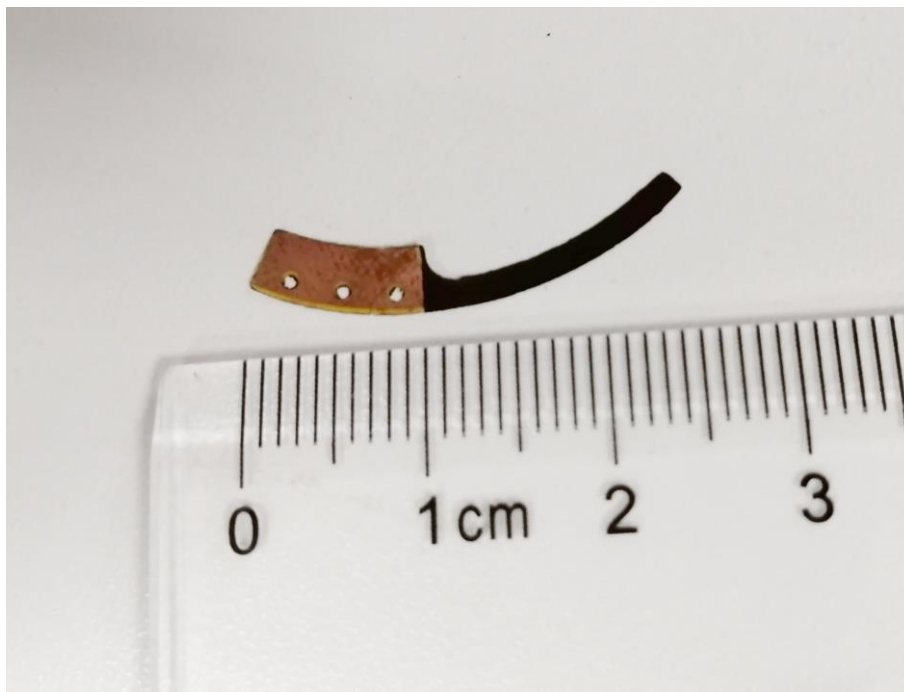
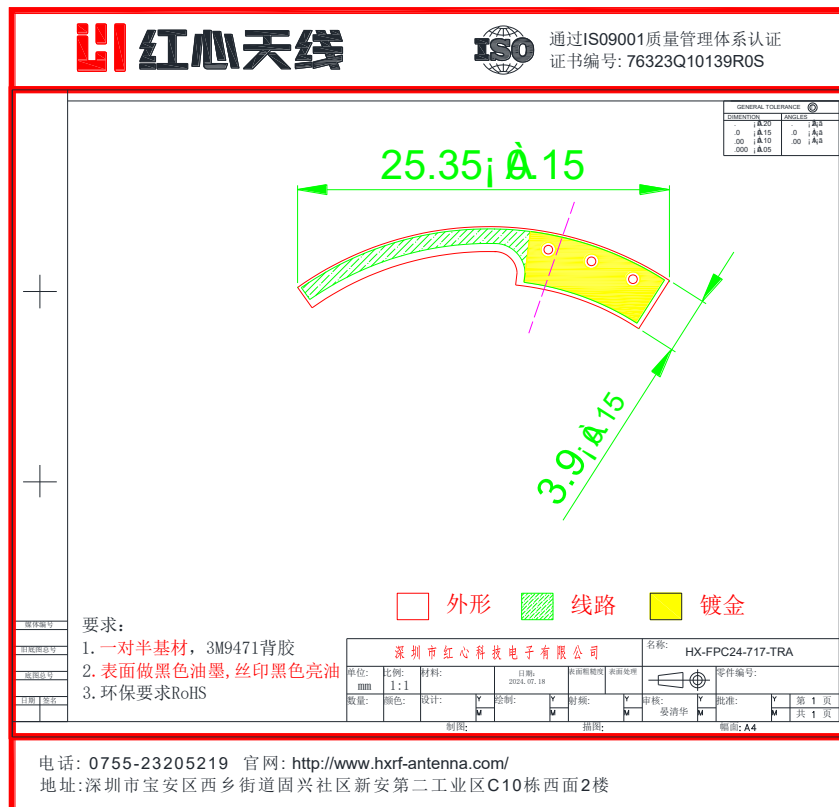
Note

1.When changing product metrics, the version number needs to be replaced (V1 to V2, V3, etc.) ;

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1. 2D Drawing & Product Picture



2. Antenna Specification

2.1 Electrical Specification

Electrical Specification	
Operation Frequency (MHz)	2400-2500
Impedance (Ohms)	50
VSWR	2400-2500 $\leq$ 1.4
Efficiency (%)	2400-2500: 43
Peak Gain (dBi)	2400-2500: 2.17
Radiation Properties	Omnidirectional
Polarization	Linear polarization
Max input Power (Watts)	50

2.2 Mechanical Parameter

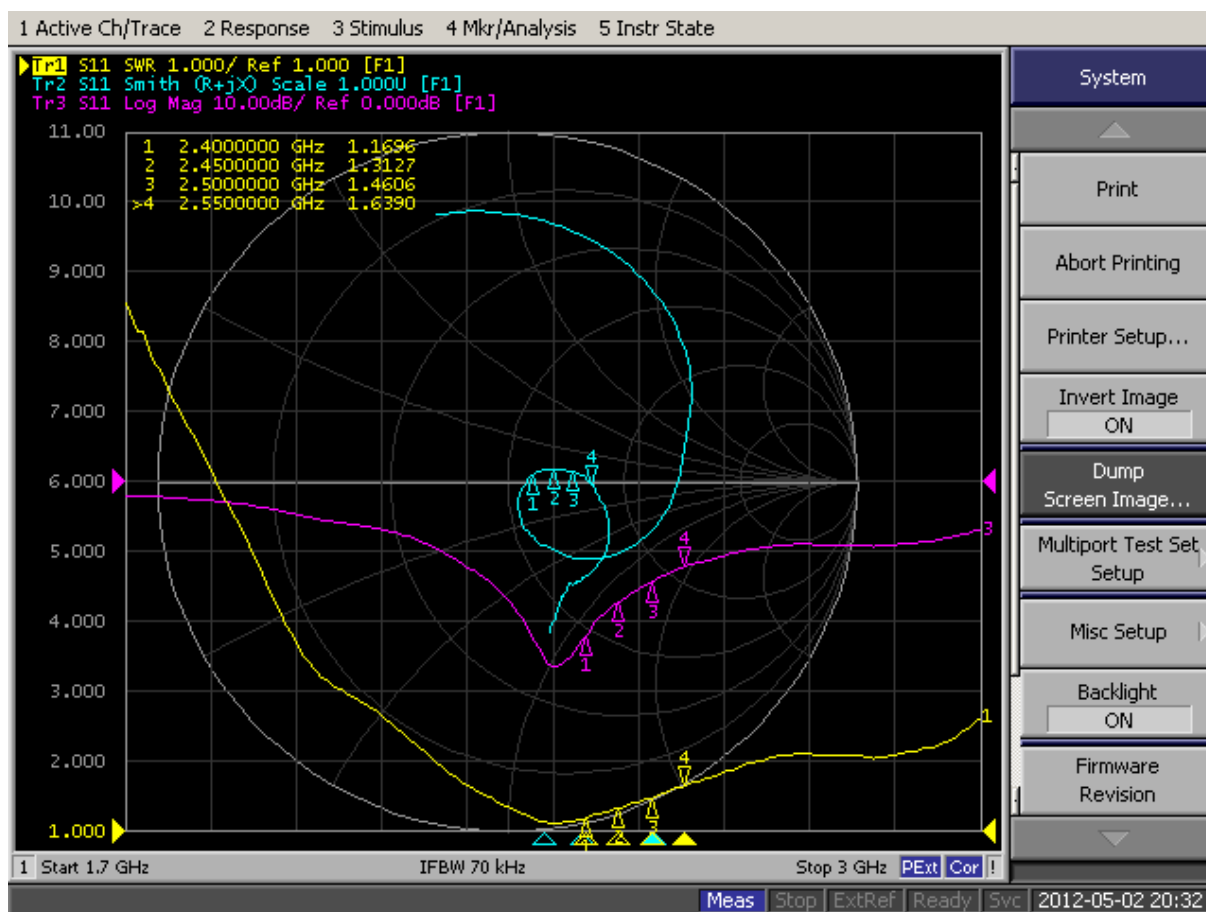
Mechanical Parameter	
Structure Type	FPC Antenna
Dimension	
Material	
Salt Spray	48H

2.3 Environment Specification

Environment Specification	
Operating temperature	-40°C ~ +80°C
Storage temperature	-40°C ~ +80°C

3 Passive Test Data

3.1 VSWR / Smith chart / Return loss



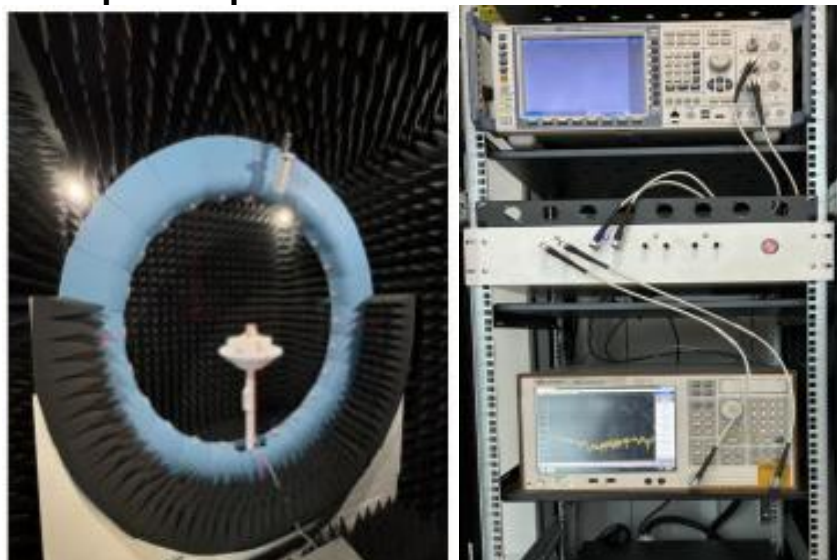
frequency range: 2400MHz-2500MHz

3.2 Test System

Multi-probe spherical near-field anechoic chamber test system that meets the relevant international regulations such as CTIA and 3GPP, a multi-functional wireless test system with excellent performance in radio frequency,

absorption, and mechanical structure. The system has high integration and reliability. It supports pendulum sampling frequency-doubling technology and can be adapt to the testing needs of small multi-lobed antennas. It is suitable for the wireless testing of small high-integration electronic devices such as IoT

devices, drone modules, car machine modules, smart home devices, and mobile communication equipment. It can also meet the testing needs of ceiling antennas, miniature base stations, and embedded routers, etc., which have high dependence on the passive performance of antennas.

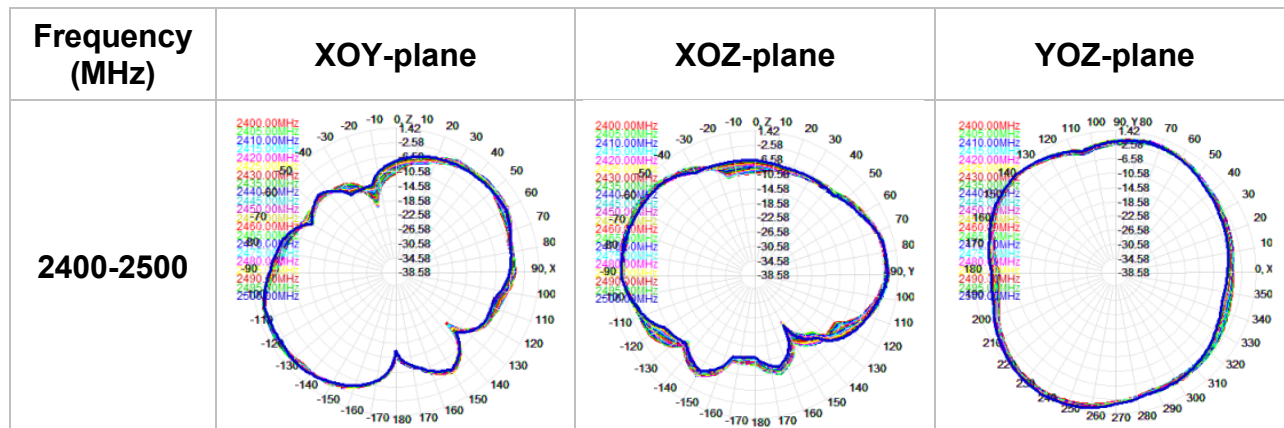


Supported Band	600MHz-9GHz (Expand. 12GHz)
Test Item	Passive: Gain/Efficiency/2D/3D radiation/non-circularity/axial ratio ... Active: TRP/TIS/EIRP/EIS
Test Standard	2G/ 3G /4G / 5G/ Wi-Fi b/g/n/a/ac/ax/Bluetooth/NB-IOT /Cat-M(eMTC)/ GPS/ BEIDOU/ GLONASS/ ZigBee/ LoRa (Non-signaling)...

3.3 Efficiency & Gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	1.81	42.00	2405	1.87	42.80
2410	1.85	42.51	2415	1.83	42.50
2420	1.87	42.83	2425	1.85	42.90
2430	1.84	42.70	2435	1.82	42.50
2440	1.91	43.08	2445	2.07	44.33
2450	2.11	44.73	2455	2.11	44.11
2460	2.10	43.93	2465	2.17	44.13
2470	2.16	43.63	2475	2.10	42.90
2480	2.08	42.78	2485	2.09	43.05
2490	2.02	43.25	2495	2.02	43.35
2500	1.90	43.01			

3.4 2D Radiation Model



3.5 3D Radiation Model

