



2.4G/5.8G ROD ANTENNA

TECHNICAL DATASHEET

TXWF-JKS-20

VERSION: 3.3 DATE: 2023-08-01

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CHENGDU ZIISOR TECHNOLOGY CO., LTD. EXPERT OF IOT ANTENNA

TXWF-JKS-20

NO.	MECHANICALSPECIFICATIONS	VALUE	COMMENT
01	Part Number	TXWF-JKS-20	2.4G/5.0G Rod Antenna
02	Material	TPEE	
03	Material of Radiator	Copper	Dipole
04	Connector Type	SMA-K	
05	Antenna Colour	Black	
06	Overall Length	200mm	OD13mm
07	Cable Type	N/A	
08	Cable Length	N/A	
09	Weight	17g	±1g
NO.	ELECTRICALSPECIFICATIONS	VALUE	COMMENT
01	Frequency	2.4/5.8GHz	2400-2500MHz 5150~5850MHz
02	Antenna Gain	4.41dBi(max)@2.4G 3.51dBi(max)@5.8G	
03	Radiation type	Omni directional	
04	Polarization	Linear	Vertical
05	Nominal Impedance	50Ω	
06	Power Capacity	20W	
07	S.W.R.	≤2.0	
NO.	ENVIRONMENTALSPECIFICATIONS	VALUE	COMMENT
01	Operation Temperature	-30℃ ~ +75℃	
02	Storage Temperature	-30℃ ~ +75℃	
03	RoHS Compliant	YES	

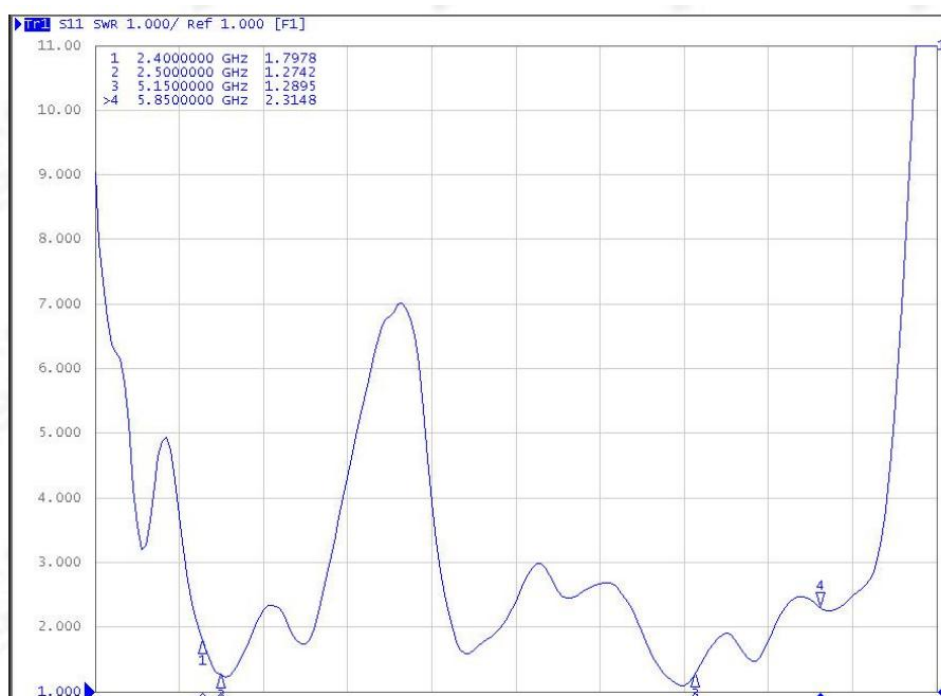
MECHANICALDRAWING



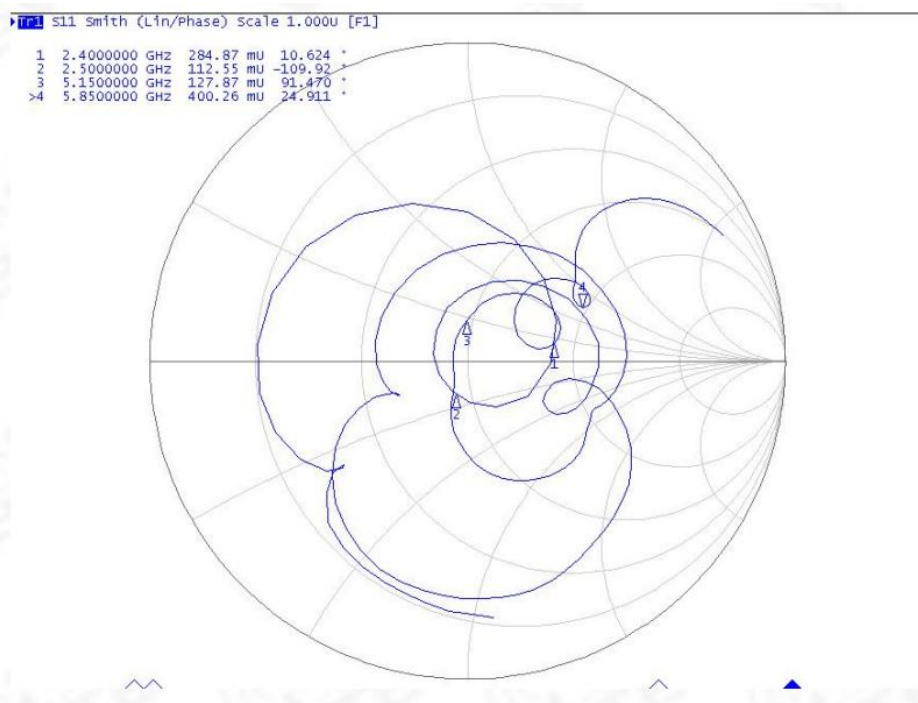
UNIT: mm

ITEM	PARTNAME	QUANTITY	MATERIAL/FINISH
a	Radome	1	TPEE Black
b	Connector	1	SMA-K

S.W.R.



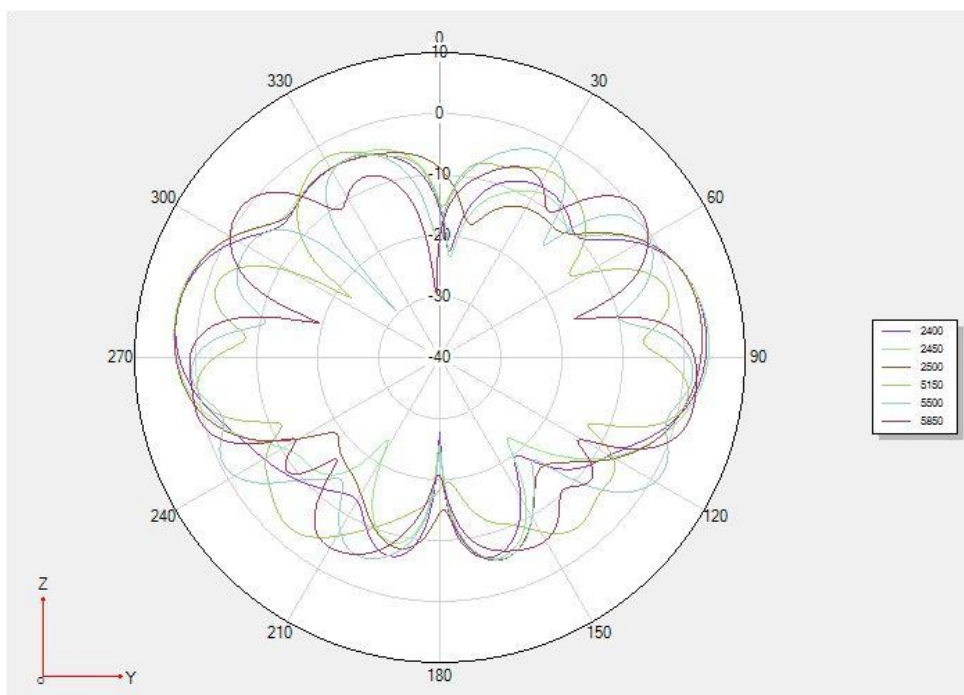
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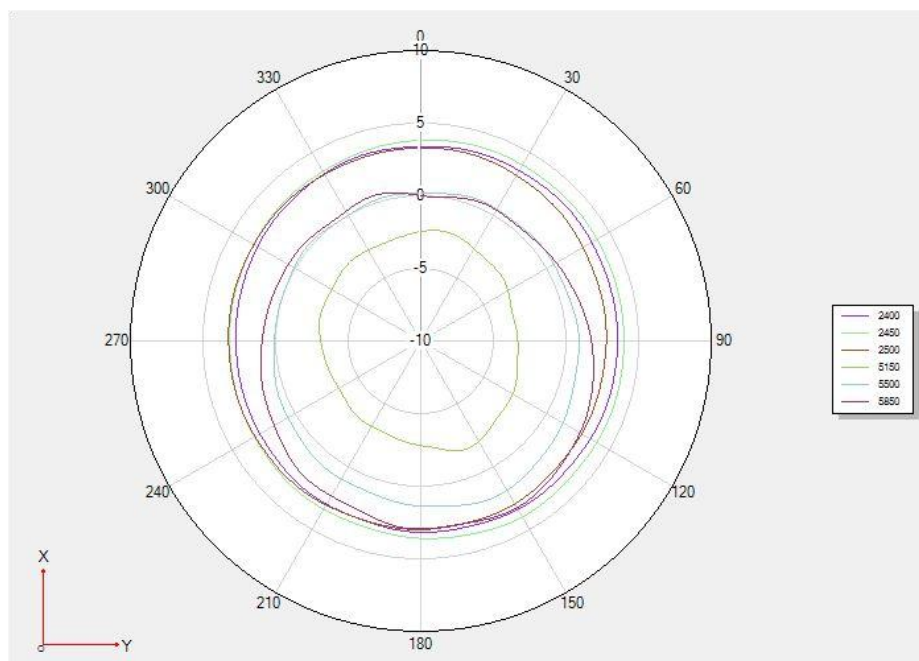
Testing Parameters-Efficiency、MaxGain

Frequency/MHz	Efficiency/ %	MaxGain/dBi
2400	61.52	3.97
2410	63.24	4.26
2420	65.01	4.33
2430	66.83	4.28
2440	65.46	4.15
2450	67.14	4.32
2460	67.76	4.41
2470	68.08	4.30
2480	66.83	4.22
2490	65.31	4.13
2500	62.37	3.81
AVG	65.41	4.20
5150	43.65	1.83
5200	40.74	2.24
5250	39.72	2.22
5300	44.26	2.84
5350	46.34	3.07
5400	54.95	3.51
5450	53.21	2.75
5500	57.28	2.76
5550	59.70	2.51
5600	61.09	2.53
5650	62.95	2.36
5700	62.66	2.33
5750	64.71	2.06
5800	64.27	2.28
5850	64.86	3.35
AVG	54.69	2.58

Testing Parameters-Efficiency、MaxGain

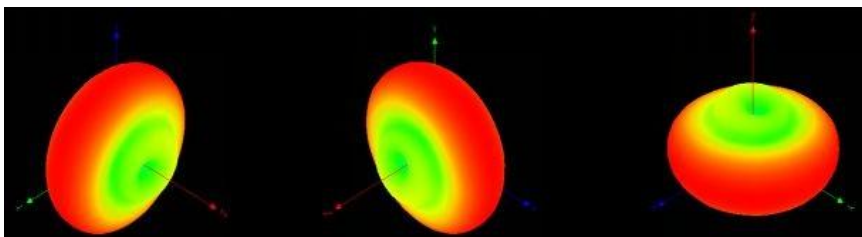
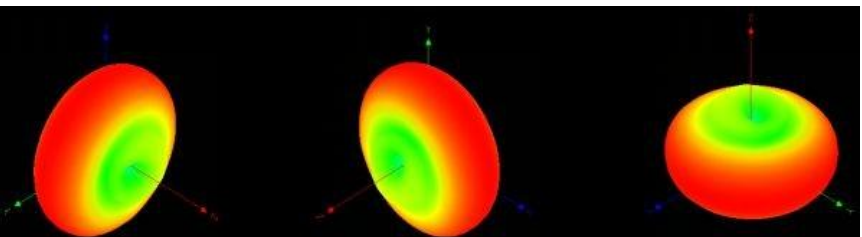
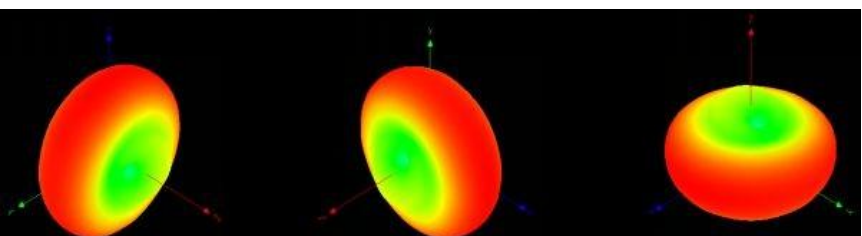
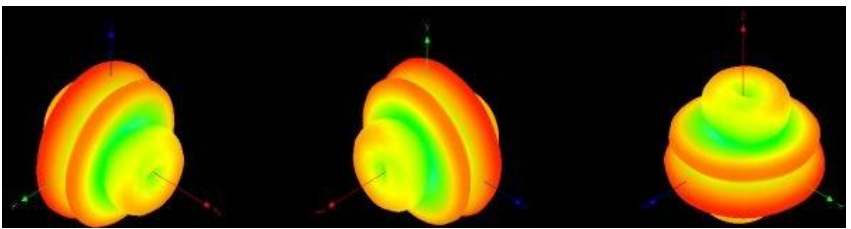
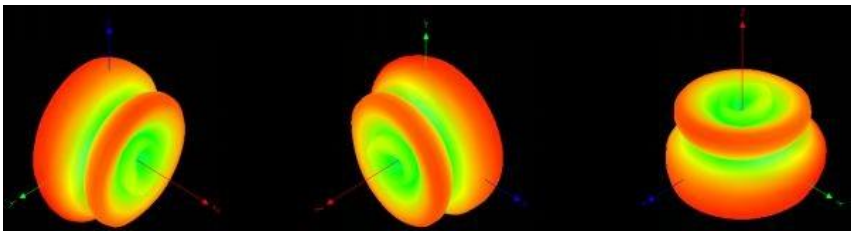


2.4G/5.8GHz Theta 90 2D Image

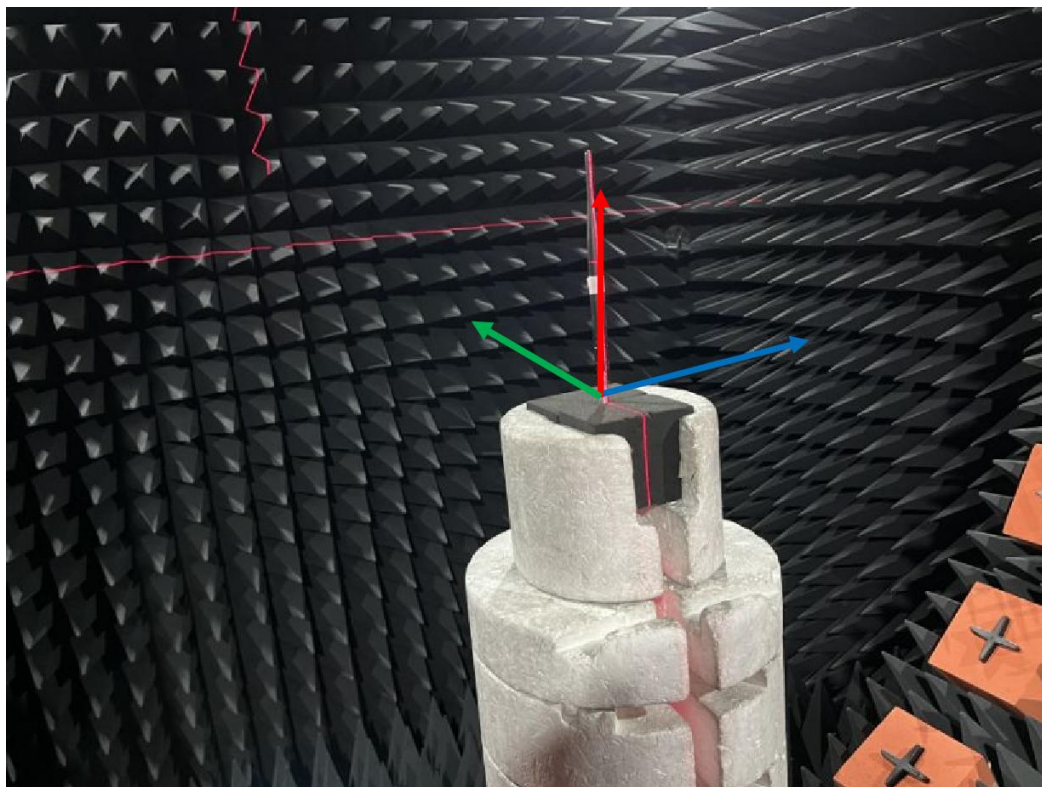


2.4G/5.8GHz Phi 90 2D Image

Testing Parameters-Radiation Pattern-3D

2400MHz	
2450MHz	
2500MHz	
5150MHz	
5850MHz	

Testing Enviroment



The above is the 3D coordinate distribution of the darkroom environment, and the corresponding color coordinates in the following structure are consistent with those in the figure.

DISCLAIMER

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