

# APPROVAL SHEET

<b>CUSTOMER NAME:</b>	Shenzhen Aotule Electronics Technology Co.,LTD
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TYPE NAME:

FPC Antenna

- |                      |                                     |
|----------------------|-------------------------------------|
| 1. Newly Approved    | <input checked="" type="checkbox"/> |
| 2. Material Approved | <input type="checkbox"/>            |
| 3. SPEC Approved     | <input type="checkbox"/>            |

Approval by Manufacturer/Supplier			Approval by Customer		
<b>Shenzhen Ruida Yongli Technology Co., Ltd.</b> <b>(APPROVAL BY) :</b>			<b>( APPROVAL BY ) : Shenzhen Aotule Electronics Technology Co.,LTD</b>		
<b>APPROVAL DATE: 2022/5/8</b>			<b>APPROVAL DATE: 2022/5/8</b>		
SUPPLIER			CUSTOMER		
Q. Dept	E. Dept	S. Dept	TESTED	CHECKED	APPROVED
Hou Zai Feng	WangShiHai	ZhangYanPing			
<b>DATE: 2022/5/8</b>			<b>DATE: 2022/5/8</b>		

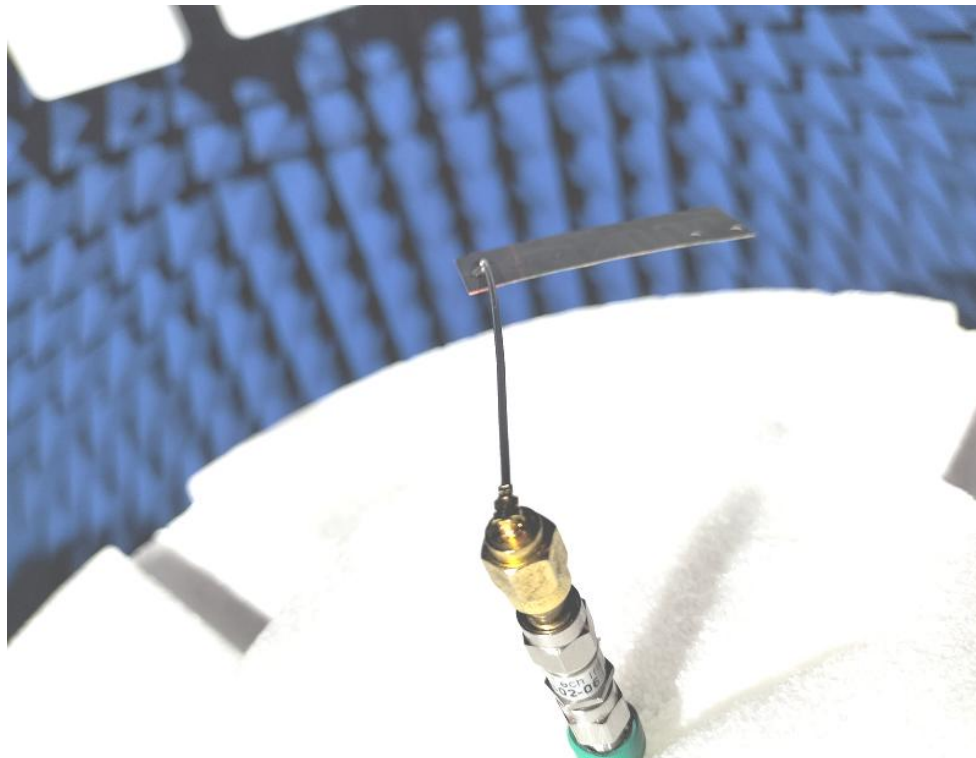
### Electrical Performance Parameters

Model	RSD-WIFI	
Frequency Range-MHz	2400-2500	5150-5825
Gain-dBi	4.00	0.52
VSWR	≤2.0	
Input impedance-Ω	50	
Polarization	Vertical	
Maximum Power-W	20	
Connector Type	IPEX	
Cable Length-mm	65mm	
Weight-g	20	
Installation	Turnbuckle Butt	

Physical map:



Test Equipment



### Test Chart

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Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5180.0	5260.0	5500.0	5620.0	5700.0
Efficiency (dBi)	-2.13	-2.26	-2.30	-2.21	-2.14	-2.03	-1.95	-1.85	-1.86	-1.89	-1.90	-5.51	-5.40	-5.21	-5.25	-5.19
Gain (dBi)	3.61	3.58	3.61	3.66	3.61	3.74	3.86	4.00	3.91	3.78	3.73	-0.22	-0.17	0.50	0.52	0.09
Efficiency (%)	61.20	59.43	58.85	60.08	61.06	62.72	63.84	65.27	65.10	64.70	64.61	28.14	28.84	30.16	29.87	30.24
Directivity (dB)	5.74	5.84	5.92	5.87	5.75	5.77	5.81	5.85	5.78	5.67	5.63	5.28	5.23	5.71	5.77	5.28
Peak Gain Position (Theta)	156.00	156.00	156.00	156.00	155.00	154.00	155.00	154.00	154.00	155.00	156.00	148.00	135.00	135.00	134.00	96.00
Peak Gain Position (Phi)	26.00	28.00	29.00	28.00	25.00	21.00	21.00	20.00	21.00	23.00	25.00	189.00	133.00	132.00	131.00	242.00
Efficiency ThetaPol (%)	24.06	23.61	23.51	24.27	25.02	26.16	27.08	27.88	27.48	26.77	26.10	10.20	10.32	11.14	11.27	11.03
Efficiency PhiPol (%)	37.13	35.83	35.34	35.81	36.04	36.56	36.76	37.39	37.62	37.93	38.51	17.94	18.52	19.02	18.61	19.22
Upper Hem. Efficiency (%)	26.98	26.23	26.00	26.48	26.91	27.56	28.14	28.80	28.77	28.69	29.01	13.43	13.31	13.61	13.32	13.45
Lower Hem. Efficiency (%)	34.21	33.20	32.84	33.61	34.15	35.16	35.70	36.47	36.34	36.01	35.60	14.71	15.53	16.55	16.55	16.80

T90(H)圆度	15.65	17.89	20.83	18.41	16.22	15.18	14.82	14.06	13.30	13.48	13.63	22.09	17.72	18.85	20.27	17.76	17.46
Gain 15deg (dBi)																	
E1(XZ)波瓣宽度	38.00	36.00	34.00	32.00	31.00	31.00	31.00	31.00	32.00	35.00	35.00	27.00	28.00	35.00	30.00	36.00	30.00
E1(XZ)前后比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.63	1.75	2.98	3.73	5.43
E2(YZ)波瓣宽度	159.00	158.00	154.00	153.00	152.00	151.00	150.00	149.00	149.00	150.00	152.00	25.00	50.00	50.00	52.00	49.00	21.00
E2(YZ)前后比	0.00	0.00	0.00	0.00	0.00	0.02	0.32	0.71	0.86	0.77	0.48	0.00	0.01	0.02	0.29	1.34	
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	76.00	76.00	82.00	81.00	79.00	78.00	77.00	74.00	71.00	72.00	73.00	41.00	52.00	42.00	54.00	47.00	46.00
Hc(XY)前后比	1.24	1.35	1.22	0.93	1.03	1.18	1.28	1.35	1.31	1.15	0.96	0.34	0.16	0.18	0.20	0.00	0.00
Empty																	

### Test pattern



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