



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书
Approval Sheet

客户名称 Customer	六联智能	日期 Data	2024/09/04
产品名称 Product	WiFi副天线	客户机型 Models	ARN79C-160H-SCD
料号 P/N	F1179-14LG-220	客户料号 Customer P/N	M.T.A.0000794
规格描述 Specifications	黑色FPC； RF0.81四代端子灰色同轴线； L=220mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

文件修订履历表

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

Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639

QQ: 487580356

Email: Stephdeng_Vis@126.com



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	37%@2.4G; 47%@5G
Peak Gain	2.1dBi@2.4G; 6.2dBi@5G

1.2 Physical Properties

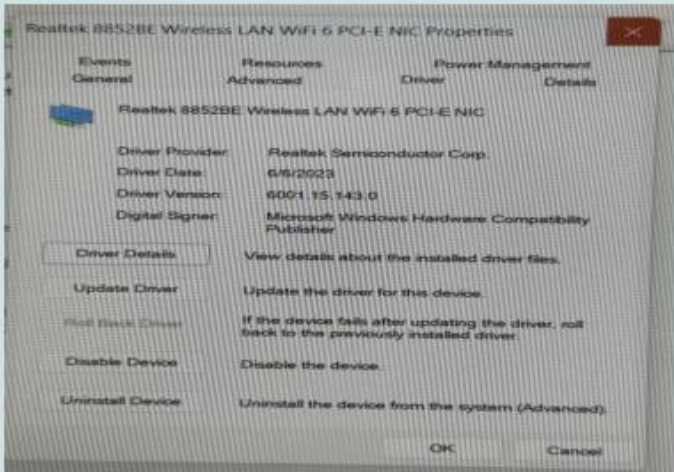
Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH



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WiFi Ant Test Information

Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

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Antenna Placement



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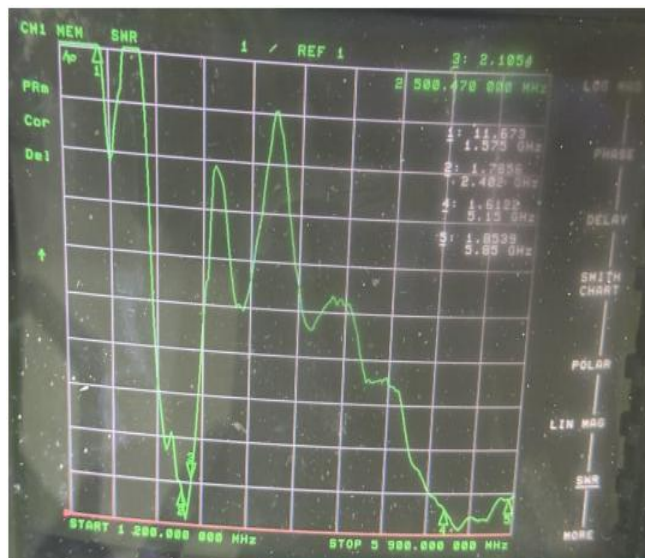


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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.78	2.1	1.61	1.85
Return Loss (DB)	-11.3	-9.17	-12.6	-10.48

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	10.41	CH1 11Mbps	-78.53
	2437	CH6 11Mbps	9.31	CH6 11Mbps	-78.31
	2467	CH11 11Mbps	8.59	CH11 11Mbps	-78.01
802.11a		TRP		TIS	
	5180	CH36 6Mbps	9.98	CH36 54Mbps	-70.35
	5300	CH60 6Mbps	9.83	CH60 54Mbps	-69.95
	5805	CH161 6Mbps	13.32	CH161 54Mbps	-70.41

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Efficiency Table

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	37.4	-4.27	1.81	-0.34	20.922	16.481	1.81	-13.42
2410	35.01	-4.56	1.96	-0.19	20.083	14.929	1.96	-14.22
2420	35.58	-4.49	2.19	0.04	20.545	15.038	2.19	-13.77
2430	33.4	-4.76	1.92	-0.23	19.339	14.06	1.92	-13.51
2440	33.45	-4.76	2.14	-0.01	19.298	14.152	2.14	-12.76
2450	33.73	-4.72	2.13	-0.02	19.337	14.395	2.13	-12.39
2460	32.2	-4.92	1.66	-0.49	18.324	13.875	1.66	-12.68
2470	29.28	-5.33	0.94	-1.21	16.47	12.809	0.94	-14.41
2480	30.01	-5.23	0.81	-1.34	16.774	13.238	0.81	-15.62
2490	33.01	-4.81	0.78	-1.37	18.063	14.947	0.78	-15.75
2500	26.87	-5.71	-0.5	-2.65	14.475	12.393	-0.5	-16.04
Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	33.24	-4.78	1.68	-0.47	17.493	15.743	1.68	-17.75
5170	35.63	-4.48	1.96	-0.19	18.622	17.007	1.96	-18.06
5190	36.17	-4.42	2.2	0.05	18.806	17.369	2.2	-17.94
5210	40.69	-3.91	3.44	1.29	21.98	18.708	3.44	-15.03
5230	40.08	-3.97	3.97	1.82	22.664	17.419	3.97	-16.59
5250	46.29	-3.35	4.42	2.27	26.713	19.575	4.42	-17.44
5270	47.09	-3.27	4.32	2.17	27.322	19.767	4.32	-16.63
5290	47.08	-3.27	4.68	2.53	27.22	19.862	4.68	-17.38
5310	42.84	-3.68	5	2.85	24.602	18.234	5	-15.54
5330	42.75	-3.69	5.47	3.32	24.75	17.995	5.47	-13.9
5350	43.9	-3.58	6.12	3.97	25.875	18.02	6.12	-14.3
5370	43.2	-3.65	6.2	4.05	25.48	17.72	6.2	-15.05
5390	37.73	-4.23	5.37	3.22	22.143	15.583	5.37	-16.74
5410	42.38	-3.73	5.43	3.28	24.868	17.509	5.43	-14.56
5430	35.48	-4.5	4.13	1.98	20.971	14.506	4.13	-14.08
5450	40.5	-3.93	3.87	1.72	23.987	16.509	3.87	-14.95
5470	37.62	-4.25	3.41	1.26	22.21	15.414	3.41	-17.29
5490	40.15	-3.96	3.94	1.79	23.636	16.513	3.94	-17.51
5510	42.39	-3.73	3.97	1.82	24.643	17.742	3.97	-22.08
5530	43.98	-3.57	3.49	1.34	25.05	18.929	3.49	-21.21
5550	47.05	-3.27	3.88	1.73	26.403	20.645	3.88	-16.91
5570	42.23	-3.74	3.38	1.23	23.181	19.052	3.38	-14.71
5590	45.99	-3.37	3.51	1.36	24.802	21.183	3.51	-14.55
5610	38.93	-4.1	2.06	-0.09	21.524	17.411	2.06	-18.43
5630	39.6	-4.02	1.61	-0.54	22.547	17.057	1.61	-17.15
5650	37.22	-4.29	1.03	-1.12	21.595	15.621	1.03	-12.83
5670	38.21	-4.18	0.79	-1.36	22.107	16.1	0.79	-14.83
5690	39.27	-4.06	0.42	-1.73	22.692	16.574	0.42	-14.71
5710	32.04	-4.94	-0.34	-2.49	18.293	13.75	-0.34	-14.62
5730	36.4	-4.39	0.2	-1.95	20.728	15.67	0.2	-14.43
5750	28.48	-5.45	-0.99	-3.14	16.166	12.317	-0.99	-15.38
5770	30.81	-5.11	-0.8	-2.95	17.513	13.299	-0.8	-15.27
5790	24.27	-6.15	-0.53	-2.68	13.885	10.382	-0.53	-16.82
5810	26.43	-5.78	1.21	-0.94	15.42	11.011	1.21	-19.43
5830	24.53	-6.1	1.41	-0.74	14.271	10.261	1.41	-28.88
5850	29.84	-5.25	2.33	0.18	17.398	12.439	2.33	-18.54

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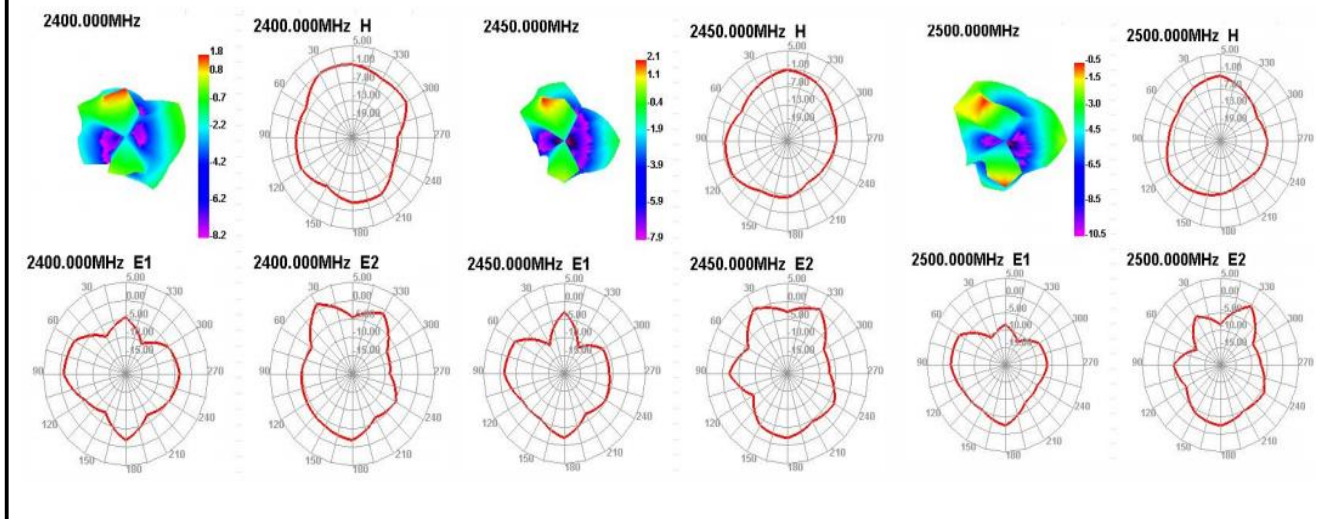
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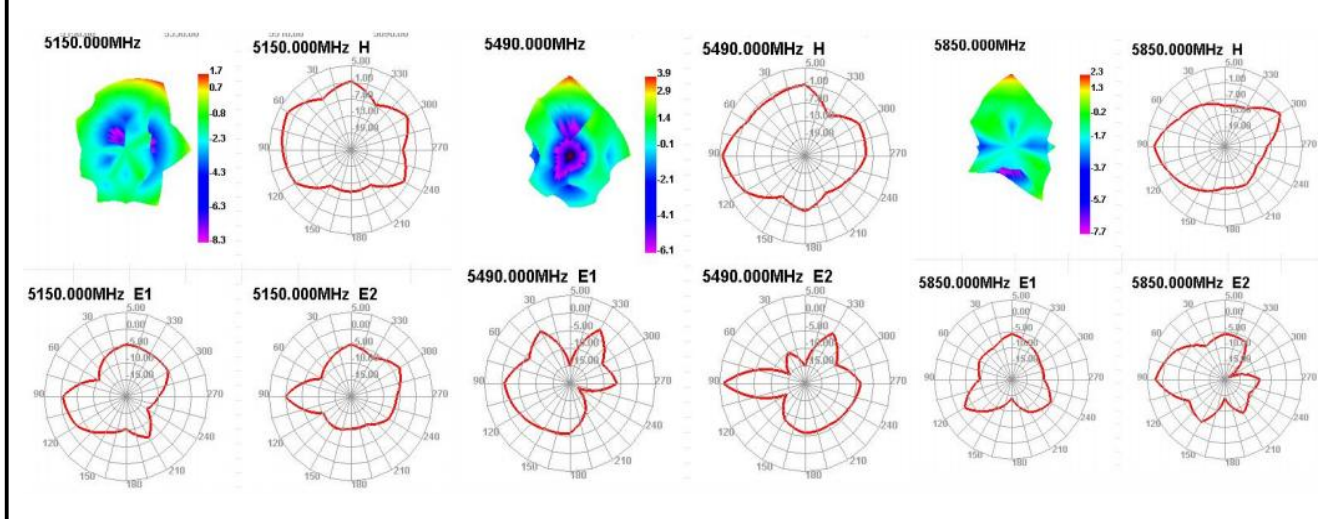
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ANTENNA Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Radiation Pattern(2.4G)



Radiation Pattern(5G)



BT Test

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10/m

结果：播放音乐流畅，无杂音。

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Throughput Test(2.4G)

上行	302M	下行	344M																																																																																																																																																																																																																																
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Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>26.0-27.0 sec</td><td>43.4 MBytes</td><td>364 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>27.0-28.0 sec</td><td>45.9 MBytes</td><td>385 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>28.0-29.0 sec</td><td>43.0 MBytes</td><td>361 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>29.0-30.0 sec</td><td>43.0 MBytes</td><td>361 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>0.0-30.0 sec</td><td>1.20 GBytes</td><td>344 Mbits/sec</td></tr></table>	[ID]	Interval	Transfer	Bandwidth	[280]	17.0-18.0 sec	46.0 MBytes	388 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	18.0-19.0 sec	43.6 MBytes	366 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[368]	25.0-26.0 sec	34.0 MBytes	285 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[368]	26.0-27.0 sec	37.7 MBytes	316 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[368]	27.0-28.0 sec	36.7 MBytes	307 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[368]	28.0-29.0 sec	36.3 MBytes	305 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[368]	29.0-30.0 sec	37.1 MBytes	311 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[368]	0.0-30.0 sec	1.05 GBytes	302 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	17.0-18.0 sec	46.0 MBytes	388 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	18.0-19.0 sec	43.6 MBytes	366 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	19.0-20.0 sec	45.8 MBytes	384 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	20.0-21.0 sec	39.9 MBytes	334 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	21.0-22.0 sec	34.8 MBytes	292 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	22.0-23.0 sec	40.9 MBytes	343 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	23.0-24.0 sec	38.4 MBytes	322 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	24.0-25.0 sec	40.0 MBytes	335 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	25.0-26.0 sec	43.5 MBytes	365 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	26.0-27.0 sec	43.4 MBytes	364 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	27.0-28.0 sec	45.9 MBytes	385 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	28.0-29.0 sec	43.0 MBytes	361 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	29.0-30.0 sec	43.0 MBytes	361 Mbits/sec																																																																																																																																																																																																																																
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																																
[280]	0.0-30.0 sec	1.20 GBytes	344 Mbits/sec																																																																																																																																																																																																																																

Throughput Test(5G)

上行	581M	下行	605M																																																																																																																																																																																																																												
图片	<table><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>17.0-18.0 sec</td><td>74.3 MBytes</td><td>623 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>18.0-19.0 sec</td><td>70.7 MBytes</td><td>593 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>19.0-20.0 sec</td><td>69.2 MBytes</td><td>580 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>20.0-21.0 sec</td><td>61.0 MBytes</td><td>512 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>21.0-22.0 sec</td><td>59.2 MBytes</td><td>496 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>22.0-23.0 sec</td><td>69.2 MBytes</td><td>580 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>23.0-24.0 sec</td><td>72.7 MBytes</td><td>610 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>24.0-25.0 sec</td><td>70.6 MBytes</td><td>592 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>25.0-26.0 sec</td><td>71.2 MBytes</td><td>597 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>26.0-27.0 sec</td><td>74.6 MBytes</td><td>625 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>27.0-28.0 sec</td><td>69.5 MBytes</td><td>583 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>28.0-29.0 sec</td><td>72.6 MBytes</td><td>609 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>29.0-30.0 sec</td><td>72.5 MBytes</td><td>608 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[372]</td><td>0.0-30.0 sec</td><td>2.03 GBytes</td><td>581 Mbits/sec</td></tr></table>	[ID]	Interval	Transfer	Bandwidth	[372]	17.0-18.0 sec	74.3 MBytes	623 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	18.0-19.0 sec	70.7 MBytes	593 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	19.0-20.0 sec	69.2 MBytes	580 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	20.0-21.0 sec	61.0 MBytes	512 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	21.0-22.0 sec	59.2 MBytes	496 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	22.0-23.0 sec	69.2 MBytes	580 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	23.0-24.0 sec	72.7 MBytes	610 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	24.0-25.0 sec	70.6 MBytes	592 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	25.0-26.0 sec	71.2 MBytes	597 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	26.0-27.0 sec	74.6 MBytes	625 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	27.0-28.0 sec	69.5 MBytes	583 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	28.0-29.0 sec	72.6 MBytes	609 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	29.0-30.0 sec	72.5 MBytes	608 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[372]	0.0-30.0 sec	2.03 GBytes	581 Mbits/sec	图片	<table><tr><td>[280]</td><td>17.0-18.0 sec</td><td>70.1 MBytes</td><td>585 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>18.0-19.0 sec</td><td>75.3 MBytes</td><td>632 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>19.0-20.0 sec</td><td>73.5 MBytes</td><td>617 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>20.0-21.0 sec</td><td>72.9 MBytes</td><td>612 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>21.0-22.0 sec</td><td>74.8 MBytes</td><td>628 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>22.0-23.0 sec</td><td>71.1 MBytes</td><td>597 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>23.0-24.0 sec</td><td>74.2 MBytes</td><td>622 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>24.0-25.0 sec</td><td>73.2 MBytes</td><td>614 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>25.0-26.0 sec</td><td>74.4 MBytes</td><td>624 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>26.0-27.0 sec</td><td>74.1 MBytes</td><td>622 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>27.0-28.0 sec</td><td>74.3 MBytes</td><td>624 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>28.0-29.0 sec</td><td>72.9 MBytes</td><td>612 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>29.0-30.0 sec</td><td>73.6 MBytes</td><td>618 Mbits/sec</td></tr><tr><td>[ID]</td><td>Interval</td><td>Transfer</td><td>Bandwidth</td></tr><tr><td>[280]</td><td>0.0-30.0 sec</td><td>2.11 GBytes</td><td>605 Mbits/sec</td></tr></table>	[280]	17.0-18.0 sec	70.1 MBytes	585 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	18.0-19.0 sec	75.3 MBytes	632 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	19.0-20.0 sec	73.5 MBytes	617 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	20.0-21.0 sec	72.9 MBytes	612 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	21.0-22.0 sec	74.8 MBytes	628 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	22.0-23.0 sec	71.1 MBytes	597 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	23.0-24.0 sec	74.2 MBytes	622 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	24.0-25.0 sec	73.2 MBytes	614 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	25.0-26.0 sec	74.4 MBytes	624 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	26.0-27.0 sec	74.1 MBytes	622 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	27.0-28.0 sec	74.3 MBytes	624 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	28.0-29.0 sec	72.9 MBytes	612 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	29.0-30.0 sec	73.6 MBytes	618 Mbits/sec	[ID]	Interval	Transfer	Bandwidth	[280]	0.0-30.0 sec	2.11 GBytes	605 Mbits/sec
[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																												
[372]	17.0-18.0 sec	74.3 MBytes	623 Mbits/sec																																																																																																																																																																																																																												
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[ID]	Interval	Transfer	Bandwidth																																																																																																																																																																																																																												
[372]	20.0-21.0 sec	61.0 MBytes	512 Mbits/sec																																																																																																																																																																																																																												
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[372]	27.0-28.0 sec	69.5 MBytes	583 Mbits/sec																																																																																																																																																																																																																												
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地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

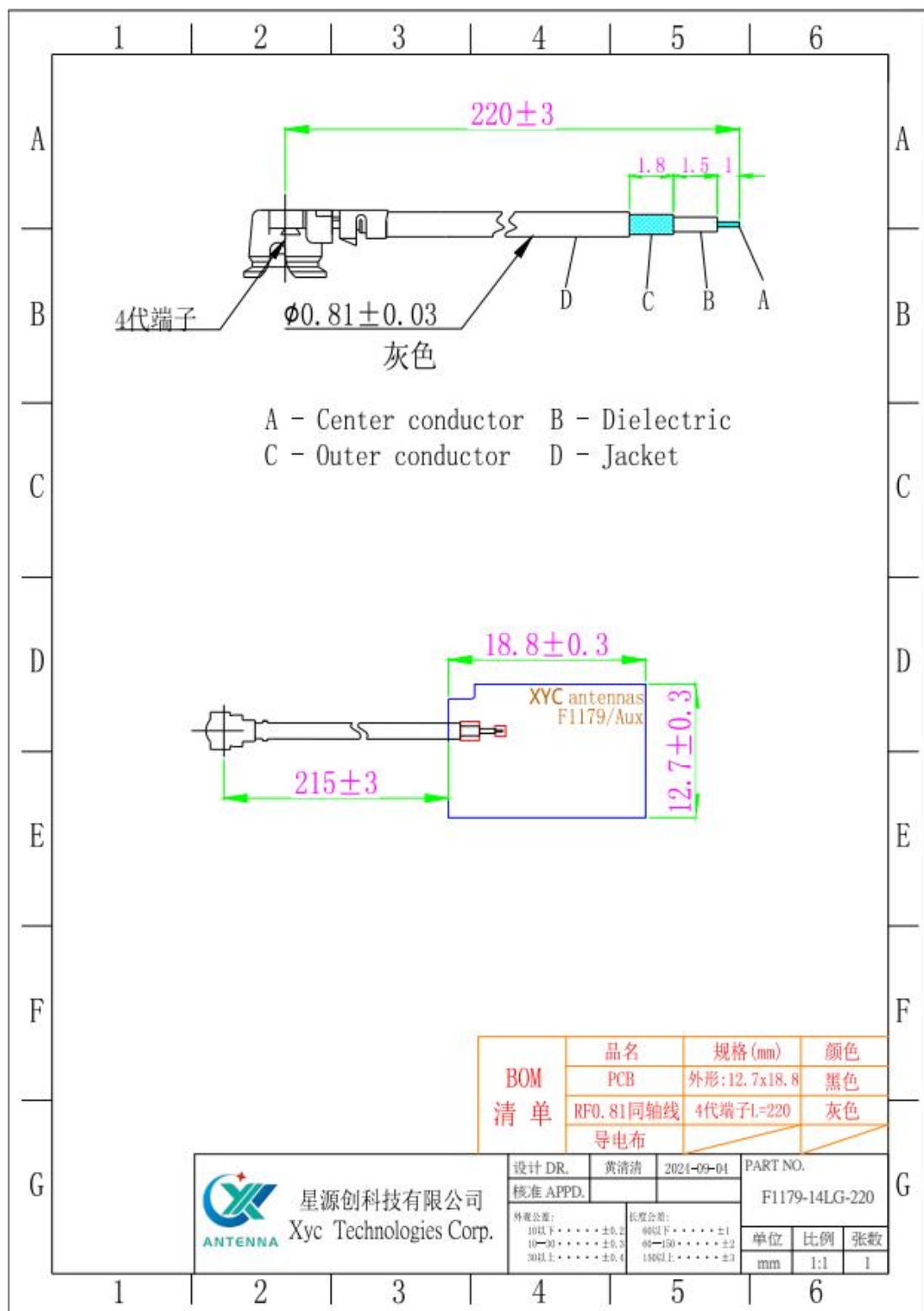
Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Assembly



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