

 深圳市华创翔科技有限公司 Shenzhen Wacosun Technology Co., Ltd	2.4G~5.8G 3.5dbi 黑色弯头扁 壳天线 Antenna 带 IPEX P/N.: HCX-B536W.3440	DOC.NO.:HCX024-042		Rev.:A	Page:1/ 14
		Approved/ Date	Checked/Date		Written/Date
		Jeff 10/10/24'	Kevin 10/10/24'		Marco 10/10/23'



Figure 1

2.4G~5.8G 3.5dbi Antenna

L=250mm 带 IPEX

Product Specification

Brand.	Product Name	Description	Finish	Order
Wacosun	HCX-B536W.3440	2.4G~5.8G 3.5dbi 外置胶棒 天线 RP- SMA-K(内螺内孔)	Gold Plate /Copper Alloy	SZ

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1.0 Scope (范围) :

This product specification is for 2.4G~5.8G 3.5dbi 外置胶棒 ANTENNA, which is used with this antenna . Please contact us before using any of the production in the applications not described above.

本产品规格为 2.4G~5.8G 5dbi 外置胶棒天线，用于该天线。请在未使用上述应用程序的任何产品前与我们联系。

2.0 Rating (等级) :

2.1 Nominal Frequency Range (额定频率范围): 2400~5850 MHz.

2.2 Nominal Impedance (额定阻抗): 50 Ω.

2.3 Temperature Rating (温度范围): -30℃ to +85℃.

3.0 EXAMINATION PERFORMANCE (性能检验):

Item (项目)	Test Description (测试简介)	Test Methods (测试方法)	Requirement (需求)
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3.1	Examination of product (Outward Appearance Structure) 产品外观检查	EIA 364-18 1).Outward appearance shall be good 2).Structure shall be meet the design and dimensional requirements of drawing. 1).外观应良好 2)结构应符合图纸的设计和尺寸要求。		Shall be confirmed with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments. 1. 目视确认图纸 2. 使用适当的测量仪器确认			
4.0 ELECTRICAL PERFORMANCE (电气性能)							
Item	Test Description	Test Methods		Requirement			
4.1	Peak Gain(dBi)	Use the 3D analyzer to measure and the basic date with the customer special cable lengthen,		2400/5150/5250/5850MHz Peak Gain(dBi):3.5dBi			

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4.2	V.S.W.R	Measure the V.S.W.R as shown in figure 2 by the network analyzer. Frequency:2400~5850MHz,	2400/5150/5250/5850MHz V.S.W.R:2.0 Max.
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5.0 MECHANICAL PERFORMANCE:			
Item	Test Description	Test Methods	Requirement
5.1	Connector Durability	100 cycles of mating and withdrawal under the following conditions. Cycle speed: 25±3mm/min Max.	No evidence of visual mechanical damages and meet the specification.

6.0 ENVIRONMENTAL PERFORMANCE:			
6.1	Salt water spray	Temperature:308+/-2K(35+/-2°); Salt water density by weight:5+/-1%; Duration:48 hours; Mated; Recovery: Let the specimens are rinsed with water and let it rest at ambient temperature (15~35°C) for 48 hours after salt water spray testing. Test equipment: Salt Spray Tester	Appearance,construction: No defect such as remarkable corrosion.

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6.2	Stockpile condition	Please use the product within Six months after receipt	Temperature: -10 ~ +40 °C Relative Humidity : 15 ~ 85 % RH
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RELIABILITY TEST REPORT

(可靠性验证报告)

Note:

- Samples shall be prepare in accordance with applicable manufacture' s instructions and shall be selected at random from current production.
- The numbers in the table indicate sequence in which tests are performed.
- Precondition samples with 5 cycles durability.
- All the tests shall be performed in the sequence, indicated by the number in the columns.
- Each test groups shall consist of minimum of five connectors. selected and identified. Unless otherwise specified, these SPEC shall be used for all measurements.

1.0 Reliability test report:

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电气参数		物理特性	
Electrical specifications Description		Physical Properties	
频率范围 (MHz) Frequency Range	2400/5150/5250/5850MHz	长度 Length (mm)	124mm
带宽 Band Width	10/50	连接器型号 Connector	IPEX I 代
输入阻抗 Impedance	50Ω	外壳材料 Radome Material	ABS
驻波比 VSWR	<2.0	外壳颜色 Radome Color	黑色 Black
增益 Gain	3.5dBi	/	/
极化方式 Polarization	垂直	/	/
辐射方向 Radiation	全向	/	/
功率容量 Power	10W	/	/

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产品图示 Product :

Antenna-3.5DB L=250mm IPEX:

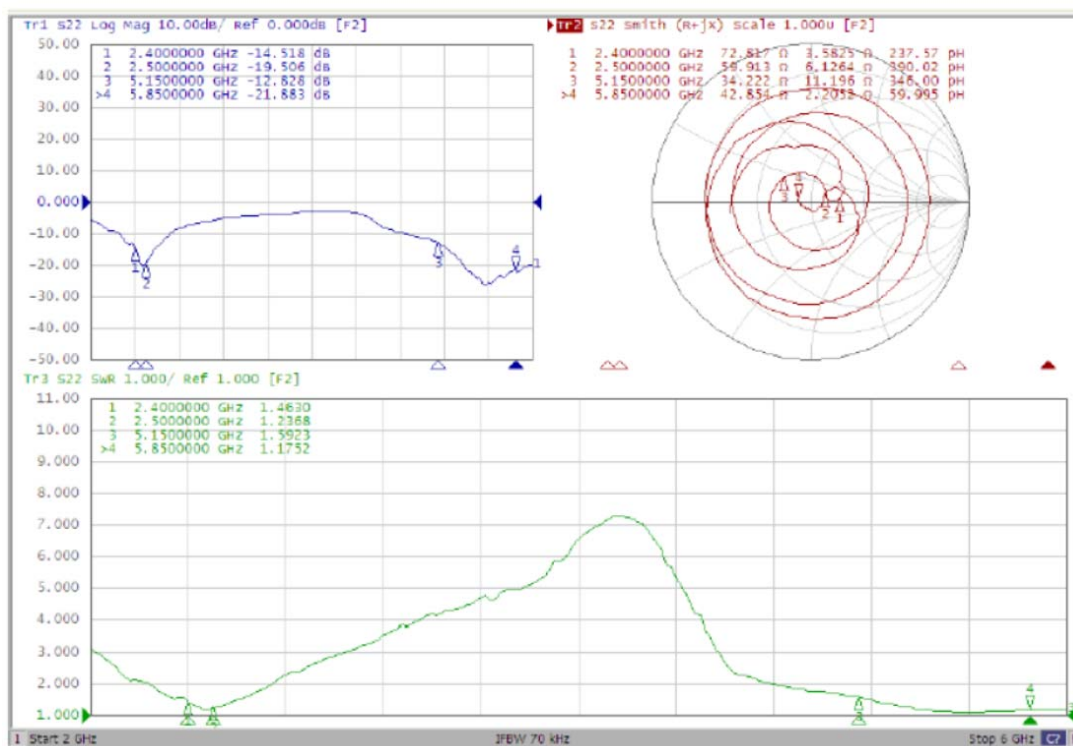


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RF Antenna Assembly

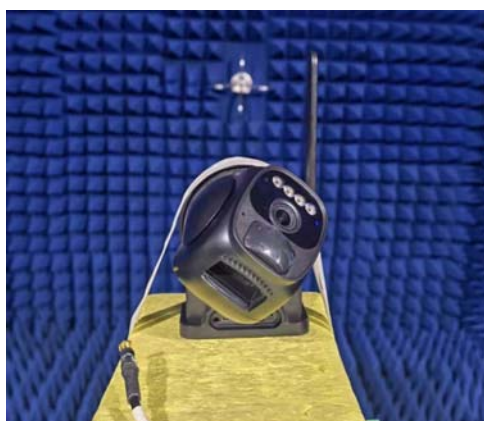
SPEC:2.4~5.8GHz

2.0 :回波损耗 Return Loss&3.0:电压驻波比 V.S.W.R&4.0: 阻抗图 Impedance



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OTA 有源实验测试:



2.4-5.8G 暗室测试数据图

天线暗室	Test	Wifi 2G TIS				Wifi 5G TIS				平均值	测试产品: QW5安防监控 测试条件: 平置在测试台上面 测试设备: 广屏OTA 单探头 测试参数: 2.4G 802.11b : 11Mbps 5.8G 802.11a : 54Mbps
	Result	1	7	13	36	64	149	165			
	Frequency (MHz)	2412	2442	2472	5180	5320	5745	5825			
	TIS (dBm)	-90.91	-91.03	-81.55	-81.83	-82.8	-81.93	-81.55	-84.51		
	Test	Wifi 2G TRP				Wifi 5G TRP					
	Result	1	7	13	36	64	149	165			
	Frequency (MHz)	2412	2442	2472	5180	5320	5745	5825			
	TRP (dBm)	23.48	21.83	21.17	24.47	23.35	21.77	24.62	22.95		

OTA 无源实验测试:

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Passive Test For 2.4G~5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
2400	57.78	-2.38	2.6	0.45	24.383	33.399	2.6	-12.2	4.98	30
2410	57.47	-2.41	2.44	0.29	23.837	33.631	2.44	-13.03	4.84	30
2420	58.27	-2.35	2.63	0.48	23.784	34.489	2.63	-12.75	4.97	30
2430	58.8	-2.31	2.81	0.66	23.732	35.066	2.81	-12.57	5.12	30
2440	59.16	-2.28	3.06	0.91	23.626	35.532	3.06	-12	5.34	60
2450	54.01	-2.68	2.82	0.67	21.458	32.552	2.82	-11.44	5.49	30
2460	53.18	-2.74	2.93	0.78	20.997	32.186	2.93	-11.16	5.67	30
2470	52.57	-2.79	2.98	0.83	20.682	31.888	2.98	-11.57	5.77	30
2480	53.44	-2.72	3.12	0.97	21.039	32.405	3.12	-11.69	5.84	30
2490	55.58	-2.55	3.25	1.1	22.078	33.5	3.25	-11.6	5.8	30
2500	53.71	-2.7	3.03	0.88	21.704	32.009	3.03	-11.82	5.73	30
2510	50.99	-2.92	2.67	0.52	21.042	29.951	2.67	-11.89	5.59	30
2520	48.26	-3.16	2.25	0.1	20.232	28.023	2.25	-12.26	5.42	30
2530	43.62	-3.6	1.64	-0.51	18.469	25.153	1.64	-13.28	5.24	30
2540	38.74	-4.12	0.99	-1.16	16.572	22.172	0.99	-14.39	5.11	30
2550	35.42	-4.51	0.45	-1.7	15.369	20.048	0.45	-15.85	4.96	30
2560	32.28	-4.91	-0.1	-2.25	14.247	18.029	-0.1	-17.18	4.81	30
2570	31.18	-5.06	-0.5	-2.65	14.086	17.091	-0.5	-17.31	4.56	30
2580	28.04	-5.52	-0.99	-3.14	12.937	15.099	-0.99	-17.74	4.54	30
2590	26.85	-5.71	-1.18	-3.33	12.643	14.206	-1.18	-17.47	4.53	30
2600	27	-5.69	-1.18	-3.33	12.821	14.182	-1.18	-16.73	4.51	30
2610	27.2	-5.65	-1.08	-3.23	12.893	14.307	-1.08	-16.35	4.58	30
2620	24.75	-6.06	-1.35	-3.5	11.673	13.077	-1.35	-17	4.72	30
2630	24.96	-6.03	-1.07	-3.22	11.748	13.215	-1.07	-18.04	4.95	30
2640	26.79	-5.72	-0.55	-2.7	12.628	14.157	-0.55	-18.31	5.18	30

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2650	28.44	-5.46	-0.12	-2.27	13.508	14.929	-0.12	-20.25	5.34	30
2660	28.6	-5.44	-0.02	-2.17	13.675	14.923	-0.02	-22.48	5.41	60
2670	28.67	-5.43	-0.04	-2.19	13.751	14.921	-0.04	-23.25	5.39	90
2680	28.93	-5.39	-0.05	-2.2	13.837	15.094	-0.05	-19.91	5.34	120
2690	29.04	-5.37	-0.04	-2.19	13.73	15.313	-0.04	-17.02	5.33	120
2700	29.66	-5.28	0.67	-1.48	13.79	15.869	0.67	-17.34	5.95	90
2710	29.11	-5.36	1.02	-1.13	13.359	15.753	1.02	-17.94	6.38	90
2720	27.4	-5.62	1.03	-1.12	12.452	14.946	1.03	-17.36	6.65	90
2730	28.21	-5.5	1.38	-0.77	12.739	15.47	1.38	-17.96	6.88	90
2740	28.59	-5.44	1.6	-0.55	12.829	15.757	1.6	-19.48	7.04	90
2750	31.26	-5.05	1.9	-0.25	13.946	17.31	1.9	-20.16	6.95	90
2760	36.35	-4.39	2.37	0.22	16.16	20.192	2.37	-19.46	6.77	90
2770	38.22	-4.18	2.31	0.16	17.012	21.211	2.31	-17.95	6.48	90
2780	40.53	-3.92	2.29	0.14	18.016	22.516	2.29	-15.86	6.21	90
2790	42.27	-3.74	2.13	-0.02	18.684	23.586	2.13	-14.25	5.87	120
2800	42.28	-3.74	1.8	-0.35	18.472	23.811	1.8	-12.87	5.54	120
2810	43.48	-3.62	1.55	-0.6	18.694	24.784	1.55	-13.29	5.16	120
2820	46.13	-3.36	1.73	-0.42	19.532	26.594	1.73	-14.31	5.09	120
2830	47.78	-3.21	1.85	-0.3	19.905	27.875	1.85	-15.03	5.05	120
2840	46.46	-3.33	1.82	-0.33	19.03	27.434	1.82	-16.37	5.15	120
2850	45.2	-3.45	1.74	-0.41	18.3	26.902	1.74	-17.26	5.19	120
2860	44.94	-3.47	1.72	-0.43	18.053	26.882	1.72	-17.69	5.19	120
2870	44.98	-3.47	1.72	-0.43	17.977	27.006	1.72	-17.05	5.19	120
2880	41	-3.87	1.38	-0.77	16.244	24.758	1.38	-16.07	5.25	120
2890	42.43	-3.72	1.47	-0.68	16.674	25.757	1.47	-16.74	5.19	120
2900	41.9	-3.78	1.38	-0.77	16.446	25.457	1.38	-18.05	5.15	120
2910	43.3	-3.64	1.43	-0.72	17.072	26.228	1.43	-18.89	5.06	120
2920	40.8	-3.89	1.19	-0.96	16.196	24.607	1.19	-20.08	5.09	120

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5150	42.5	-3.72	2.34	0.19	23.513	18.99	2.34	-19.79	6.06	0
5160	42.47	-3.72	2.49	0.34	23.474	18.995	2.49	-20.6	6.21	0
5170	40.82	-3.89	2.51	0.36	22.578	18.238	2.51	-21.14	6.4	0
5180	41.87	-3.78	2.77	0.62	23.229	18.642	2.77	-21.26	6.55	0
5190	41.46	-3.82	2.81	0.66	23.005	18.459	2.81	-21.19	6.64	0
5200	44.07	-3.56	3.19	1.04	24.545	19.526	3.19	-20.46	6.74	0
5210	44.08	-3.56	3.28	1.13	24.681	19.4	3.28	-19.85	6.84	0
5220	44.43	-3.52	3.5	1.35	24.995	19.433	3.5	-19.13	7.03	0
5230	45.57	-3.41	3.73	1.58	25.738	19.828	3.73	-18.8	7.14	0
5240	45.31	-3.44	3.84	1.69	25.693	19.615	3.84	-19.22	7.28	0
5250	44.47	-3.52	3.8	1.65	25.155	19.317	3.8	-19.83	7.32	0
5260	45.94	-3.38	3.99	1.84	25.896	20.045	3.99	-20.33	7.37	0
5270	46.26	-3.35	4.03	1.88	25.982	20.276	4.03	-20.85	7.37	0
5280	46.82	-3.3	4.08	1.93	26.248	20.573	4.08	-21.95	7.38	0
5290	48.72	-3.12	4.26	2.11	27.338	21.378	4.26	-21.75	7.38	0
5300	47.36	-3.25	4.14	1.99	26.569	20.786	4.14	-22.21	7.38	0
5310	47.07	-3.27	4.11	1.96	26.518	20.555	4.11	-22.03	7.38	0
5320	49.14	-3.09	4.29	2.14	27.66	21.483	4.29	-21.63	7.38	0
5330	48.75	-3.12	4.18	2.03	27.456	21.292	4.18	-21.37	7.3	0
5340	51.01	-2.92	4.27	2.12	28.599	22.412	4.27	-21.71	7.19	0
5350	50.79	-2.94	4.15	2	28.39	22.397	4.15	-22.37	7.1	0
5360	49.79	-3.03	3.92	1.77	27.779	22.011	3.92	-24.28	6.95	0
5370	50.58	-2.96	3.91	1.76	28.17	22.41	3.91	-23.71	6.87	0
5380	49.94	-3.02	3.75	1.6	27.825	22.116	3.75	-21.8	6.76	0

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5390	47.52	-3.23	3.48	1.33	26.473	21.048	3.48	-20.3	6.71	0
5400	51.83	-2.85	3.76	1.61	28.937	22.894	3.76	-17.71	6.62	0
5410	50.04	-3.01	3.54	1.39	27.978	22.062	3.54	-16.59	6.54	0
5420	50.13	-3	3.42	1.27	28.116	22.017	3.42	-15.93	6.41	0
5430	49.1	-3.09	3.15	1	27.642	21.455	3.15	-15.55	6.24	30
5440	48.43	-3.15	2.93	0.78	27.338	21.089	2.93	-15.98	6.08	30
5450	48.4	-3.15	2.8	0.65	27.331	21.066	2.8	-16.15	5.95	30
5460	48.17	-3.17	2.63	0.48	27.259	20.909	2.63	-17.01	5.8	30
5470	48.94	-3.1	2.63	0.48	27.676	21.26	2.63	-17.43	5.73	30
5480	49	-3.1	2.53	0.38	27.777	21.222	2.53	-18.17	5.63	30
5490	48.27	-3.16	2.4	0.25	27.317	20.953	2.4	-19.45	5.57	60
5500	48.27	-3.16	2.35	0.2	27.356	20.91	2.35	-20.57	5.51	0
5510	47.42	-3.24	2.19	0.04	26.856	20.569	2.19	-20.97	5.43	60
5520	47.39	-3.24	2.17	0.02	26.777	20.609	2.17	-21.57	5.42	60
5530	47.89	-3.2	2.16	0.01	26.963	20.923	2.16	-21.47	5.36	60
5540	47.32	-3.25	2.12	-0.03	26.476	20.84	2.12	-22.18	5.37	60
5550	47.21	-3.26	2.03	-0.12	26.209	20.998	2.03	-21.96	5.29	60
5560	46.78	-3.3	1.77	-0.38	25.733	21.045	1.77	-22.18	5.07	60
5570	46.36	-3.34	1.64	-0.51	25.361	20.996	1.64	-22.97	4.98	0
5580	45.85	-3.39	1.49	-0.66	24.857	20.995	1.49	-22.65	4.87	60
5590	44.13	-3.55	1.36	-0.79	23.783	20.348	1.36	-23.56	4.91	60
5600	43.69	-3.6	1.35	-0.8	23.344	20.347	1.35	-23.17	4.95	60
5610	42.61	-3.71	1.28	-0.87	22.721	19.888	1.28	-22.64	4.99	60
5620	42.41	-3.73	1.14	-1.01	22.615	19.798	1.14	-22.17	4.86	60
5630	41.74	-3.79	0.97	-1.18	22.33	19.414	0.97	-21.19	4.76	60
5640	41.81	-3.79	0.97	-1.18	22.422	19.385	0.97	-21.4	4.76	60
5650	41.16	-3.86	0.83	-1.32	22.124	19.036	0.83	-21.95	4.69	60

 深圳市华创翔科技有限公司 Shenzhen Wacosun Technology Co., Ltd	2.4G~5.8G 3.5dbi 黑色弯头扁 壳天线 Antenna 带 IPEX P/N.: HCX-B536W.3440	DOC.NO.:HCX024-042		Rev.:A	Page:14/ 14
		Approved/ Date	Checked/Date		Written/Date
		Jeff 10/10/24'	Kevin 10/10/24'		Marco 10/10/23'

5650	41.16	-3.86	0.83	-1.32	22.124	19.036	0.83	-21.95	4.69	60
5660	41.88	-3.78	0.98	-1.17	22.556	19.326	0.98	-21.9	4.76	60
5670	42.5	-3.72	1.03	-1.12	22.962	19.534	1.03	-22.47	4.75	60
5680	41.13	-3.86	0.87	-1.28	22.259	18.867	0.87	-21.89	4.73	60
5690	40.86	-3.89	0.82	-1.33	22.238	18.627	0.82	-22.07	4.71	60
5700	39.16	-4.07	0.42	-1.73	21.375	17.786	0.42	-22.19	4.49	60
5710	40.94	-3.88	0.48	-1.67	22.426	18.51	0.48	-22.48	4.36	0
5720	41.2	-3.85	0.54	-1.61	22.576	18.626	0.54	-23.28	4.39	0
5730	43.53	-3.61	0.84	-1.31	23.854	19.68	0.84	-24.19	4.46	0
5740	41.75	-3.79	0.66	-1.49	22.849	18.9	0.66	-25.73	4.45	0
5750	42.76	-3.69	0.69	-1.46	23.413	19.343	0.69	-26.75	4.38	0
5760	41.86	-3.78	0.5	-1.65	22.956	18.901	0.5	-26.23	4.29	0
5770	43.33	-3.63	0.48	-1.67	23.769	19.559	0.48	-25.63	4.11	0
5780	44.31	-3.54	0.49	-1.66	24.33	19.977	0.49	-24.23	4.03	0
5790	43.36	-3.63	0.32	-1.83	23.747	19.615	0.32	-23.6	3.94	0
5800	43.71	-3.59	0.32	-1.83	23.919	19.791	0.32	-22.51	3.91	0
5810	43.59	-3.61	0.53	-1.62	23.786	19.799	0.53	-22.11	4.14	0
5820	45.75	-3.4	0.9	-1.25	24.924	20.823	0.9	-20.85	4.3	0
5830	46.35	-3.34	1.1	-1.05	25.267	21.081	1.1	-19.96	4.44	0
5840	46.56	-3.32	1.2	-0.95	25.494	21.068	1.2	-19.38	4.52	0
5850	46.46	-3.33	1.16	-0.99	25.478	20.98	1.16	-19.12	4.49	0

结论：综合以上数据，数据判定 OK, 产品可量产。

---报告内容结束---

---The end---