



深圳市海凌科电子有限公司
SHEN ZHEN Hi-LinK ELECTRONIC CO, LTD

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

客 户 名 称: _____

产 品 名 称: 2.4~5.8GHz 双频 PCB Antenna L=150mm

产 品 料 号 : HLK-PCB-D

客 户 料 号: _____

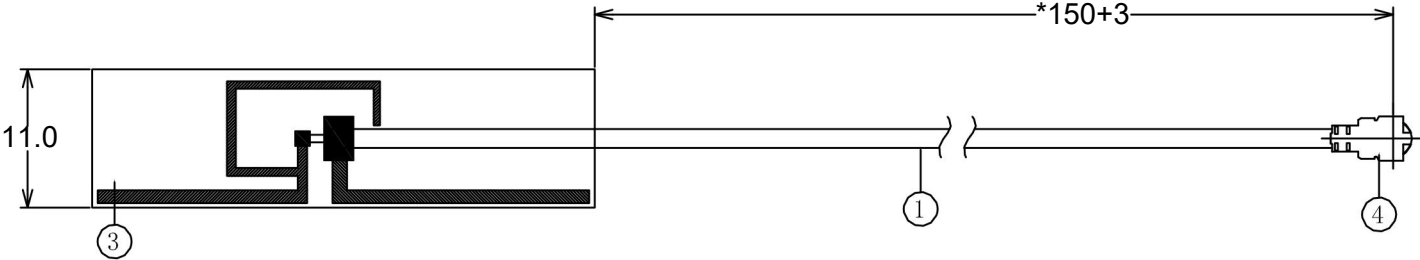
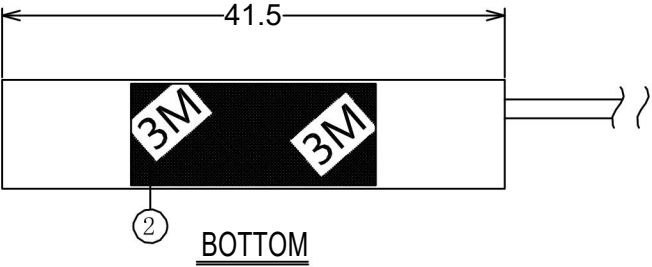
送 样 日 期: 2018-7-12

工程确认:

核准	工程	制作	签章
Approval	Quality	Engineer	

客户确认:

核准	研发	品质	签章
王怀岐	张洪	刘玲	
确认结果:	☒ 合格	☐ 不合格	☐ 其它



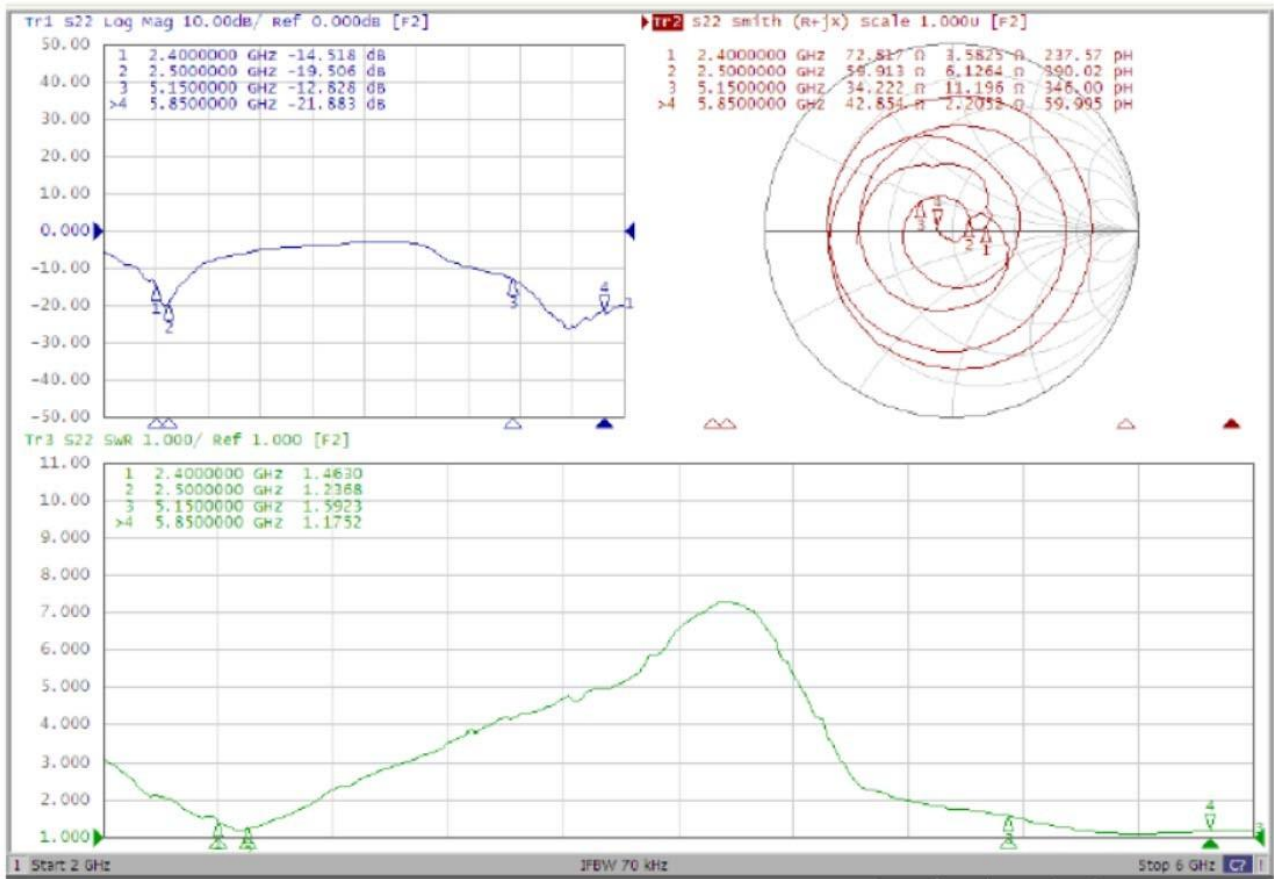
技术要求:

- 1. 芯线导体不能断或缺少
- 2. 阻抗: 50 欧姆
- 3. ,
- 4. 端子为MHF IPEX端子, 确保产品品质, 产品拉拔力要达到1.2KGf.

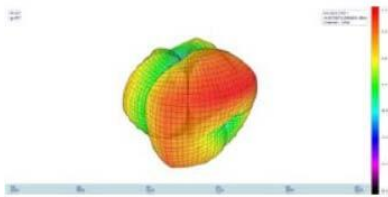
4	Connector	1	MHF Au Plating
3	PCB	1	FR-4 415/110/0.6mm
2	Lead shrink tube	1	EVA 20/J0/0.75mm
1	Coaxial Cable	1	O.D. 1.1mm (BLACK)
NO	PART NAME	Q'TY	DESCRIPTION

				TOLERANCE		Hi-Link		TITLE: Wifi Antenna L=150mm MHF CABLE			
				LINEAR	ANGLES			PART NO. LA-1CB-D			
				±0.40	±°			Dwg NO. rt100J-0s			
A		evM	2019/09/10	±0.20	±°	APPD: Jason	MATL:	UNITS: MM			
REV	ECN NO.		DATE	±0.10	±°	CHKD: Srhumi	FINISH:	SONILE: 1:1			
						DRWN: Terry	Q'TY:	SHEET: 1			
								REV: A			

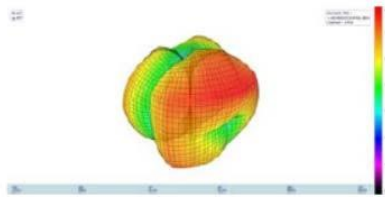
RF Antenna Assembly SPEC:2.4~5.8GHz



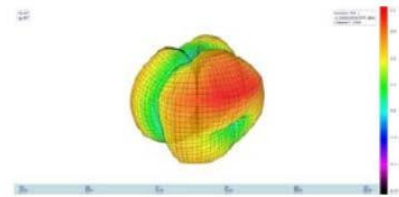
2. 4G GAIN&Efficiency



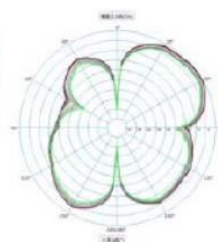
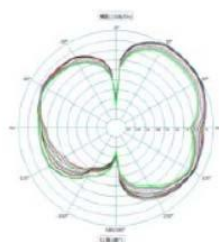
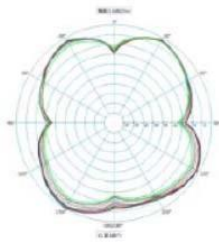
2.4Ghz 2.92dBi



2.45Ghz 2.35dBi

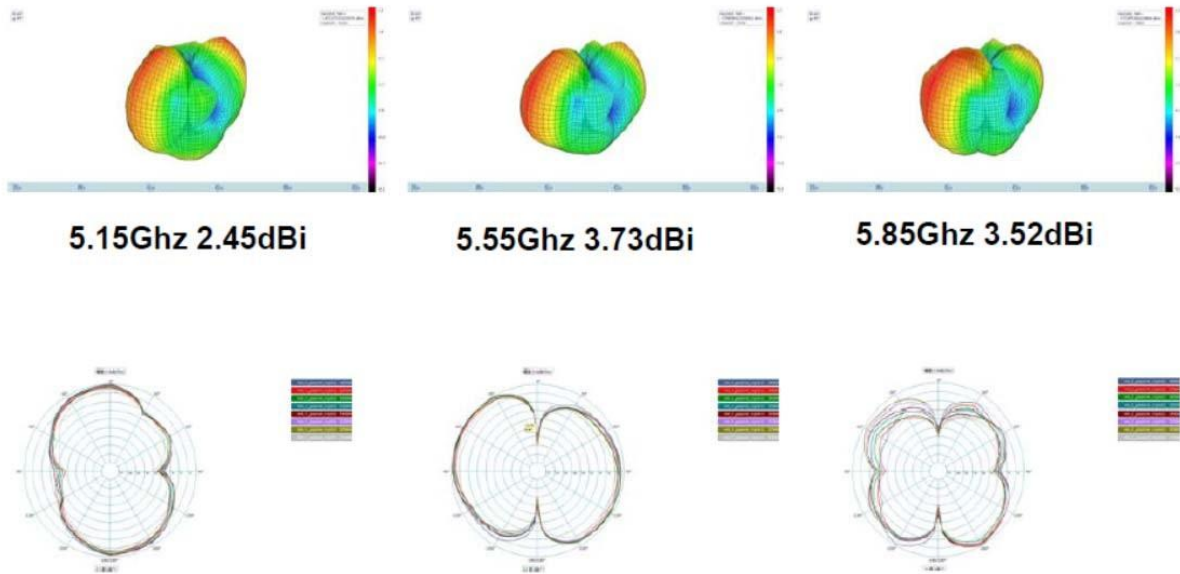


2.5Ghz 2.51dBi



PASSIVE	TRP(dBm)	-1.85	-1.74	-1.85	-2.07	-2.34	-2.57	-2.38	-2.31	-2.61	-2.56	-2.33
	参数 频率(mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Peak EIRP(dBm)	2.92	3.13	3.06	2.89	2.63	2.36	2.47	2.49	2.13	2.23	2.51
	Directivity	4.77	4.87	4.91	4.96	4.97	4.93	4.85	4.8	4.74	4.79	4.84
	Gain(dBi)	2.92	3.13	3.06	2.89	2.63	2.36	2.47	2.49	2.13	2.23	2.51
	Efficiency(dB)	-1.85	-1.74	-1.85	-2.07	-2.34	-2.57	-2.38	-2.31	-2.61	-2.56	-2.33
	Efficiency(%)	65.31	66.99	65.31	62.09	58.34	55.34	57.81	58.75	54.83	55.46	58.48
	NHPRP $\pi/4$ (dBm)	-2.6	-2.48	-2.58	-2.79	-3.06	-3.3	-3.13	-3.07	-3.38	-3.32	-3.08
	NHPRP $\pi/6$ (dBm)	-3.78	-3.65	-3.74	-3.94	-4.23	-4.48	-4.33	-4.3	-4.62	-4.57	-4.33
	Min. EIRP(dBm)	-15.4	-15.58	-15.81	-15.84	-15.79	-15.72	-15.21	-14.84	-14.51	-13.84	-13.04
	Upper Hem. PRP(dBm)	-4.97	-4.85	-4.93	-5.13	-5.43	-5.73	-5.62	-5.65	-6.01	-5.99	-5.77
	Lower Hem. PRP(dBm)	-4.74	-4.65	-4.8	-5.03	-5.27	-5.44	-5.18	-5.02	-5.27	-5.18	-4.95

5. 8G GAIN&Efficiency



PASSIVE	TRP(dBm)	-1.67	-0.49	-0.42	-0.42	-0.58	-1.08	-1.33	-0.57
	参数 频率(mhz)	5150	5250	5350	5450	5550	5650	5750	5850
	Peak EIRP(dBm)	2.45	3.62	3.58	3.47	3.73	3.49	2.95	3.52
	Directivity	4.12	4.11	4	3.89	4.31	4.57	4.28	4.09
	Gain(dBi)	2.45	3.62	3.58	3.47	3.73	3.49	2.95	3.52
	Efficiency(dB)	-1.67	-0.49	-0.42	-0.42	-0.58	-1.08	-1.33	-0.57
	Efficiency(%)	68.08	89.33	90.78	90.78	87.5	77.98	73.62	87.7
	NHPRP $\pi/4$ (dBm)	-2.8	-1.54	-1.41	-1.38	-1.51	-2.02	-2.33	-1.61
	NHPRP $\pi/6$ (dBm)	-4.39	-3.06	-2.87	-2.81	-2.91	-3.43	-3.78	-3.09
	Min. EIRP(dBm)	-12.23	-10.19	-9.05	-8.2	-9	-10.19	-11.13	-9.52
	Upper Hem. PRP(dBm)	-5.04	-3.76	-3.67	-3.66	-3.75	-4.26	-4.5	-3.76
	Lower Hem. PRP(dBm)	-4.35	-3.25	-3.2	-3.21	-3.43	-3.93	-4.19	-3.41