



深圳市海凌科电子有限公司

SHEN ZHEN Hi-LinK ELECTRICAL 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=70mm

产 品 料 号：_____ Hi-A108-106

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
确认结果： ☐ 合格 ☐ 不合格 ☐ 其它			



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承认书项目表

Item	Description
1.....	承认书封面
2.....	承认书项目表
3.....	工程图面
4.....	电性测试报告



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RF Antenna Cable Assembly

Specification

1. Electrical Properties

- 1.1 Frequency Range.....2.4GHz-5.8GHz
- 1.2 Impedance.....50 Ω Nominal
- 1.3 VSWR.....1.92:1MAX
- 1.4 Return Loss.....-10dB Max
- 1.5 Gain(peak)3.5dBi
- 1.6 Cable loss.....0.3dBi Max
- 1.7 Polarization.....Linear Vertical
- 1.8 Admitted Power.....2W
- 1.9 Cable.....0. D. 1.13mm(Black)
- 1.10 Conn.....MHF

2. Physical Properties:

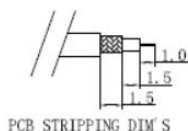
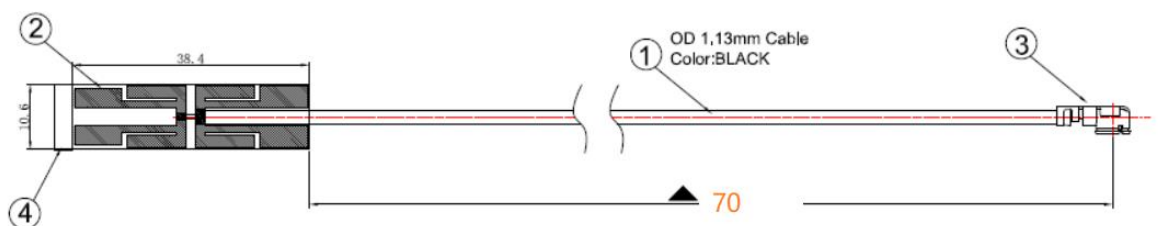
- 2.1 Antenna Material.....Cu
- 2.4 Operating Temp.....-20 $^{\circ}$ C- +65 $^{\circ}$ C
- 2.5 Storage Temp.....-30 $^{\circ}$ C- +75 $^{\circ}$ C

2.6 Color.....BLACK

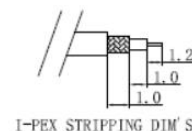
Drawing (2D):

ROHS

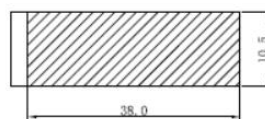
REV.	CONTENT	DATE
A	首次发行	2014.11.11



- 重点:
1. 裁线尺寸: 88.0mm
 2. ▲为重点检验尺寸
 3. PCB不可有刮伤、掉漆露铜等现象



- ④ 3M 467 double-sided adhesive, size: 38.0*10.5*0.1mm

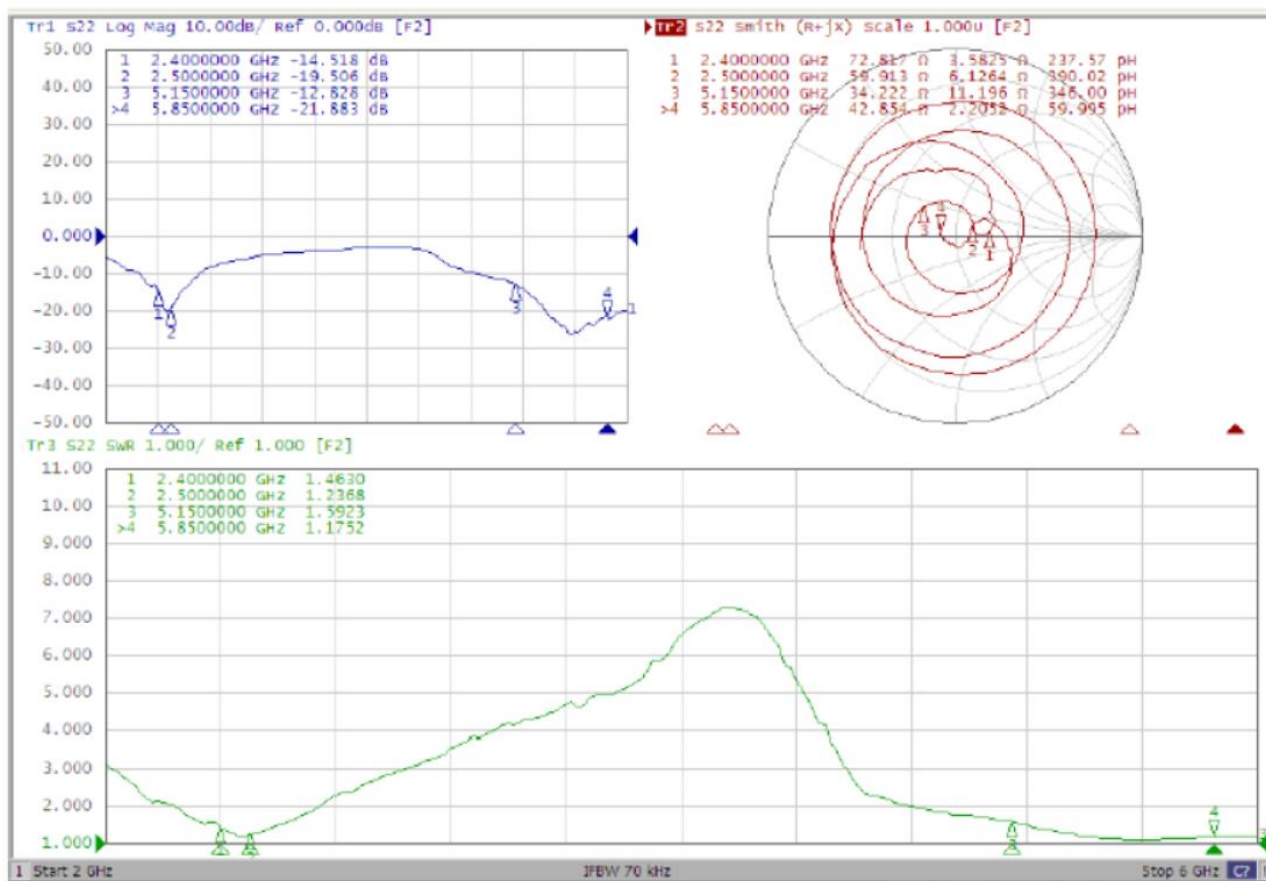


备注:

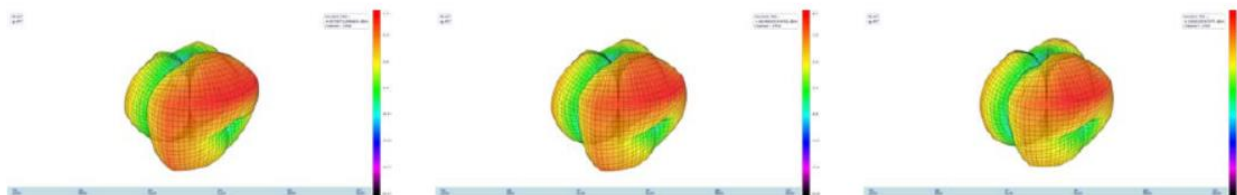
1. 线材为RF1.13黑色线材, 特性阻抗为50 Ohm
网络测试:
测试频段: 2.4~2.5GHz; 5.15~5.8GHz
VSWR: 2.0MAX
RETURN: -10 or Less

CUSTOMER

RF Antenna Assembly SPEC:2.4~5.8GHz



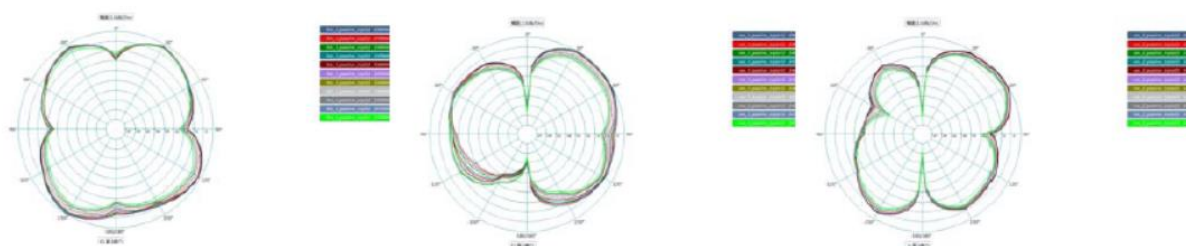
2.4G GAIN&Efficiency



2.4Ghz 2.92dBi

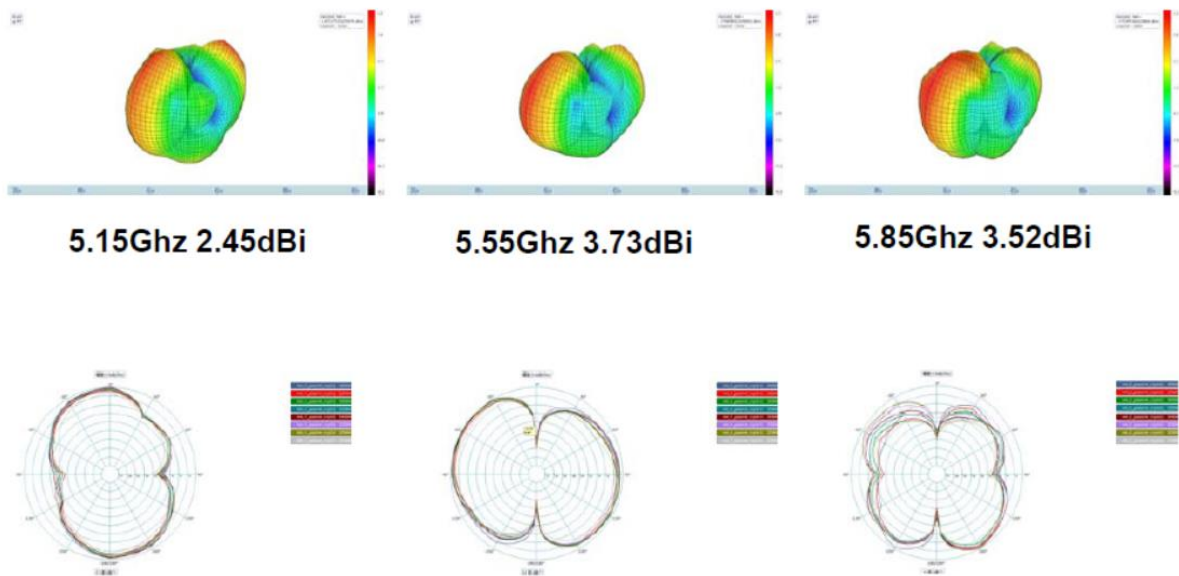
2.45Ghz 2.35dBi

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

~END~