



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
确认结果： ☐ 合格 ☐ 不合格 ☐ 其它			



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承认书项目表

Item	Description
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4.....	电性测试报告



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SHEN ZHEN Hi-Link ELECTRONIC CO, LTD

RF Antenna Cable Assembly

Specification

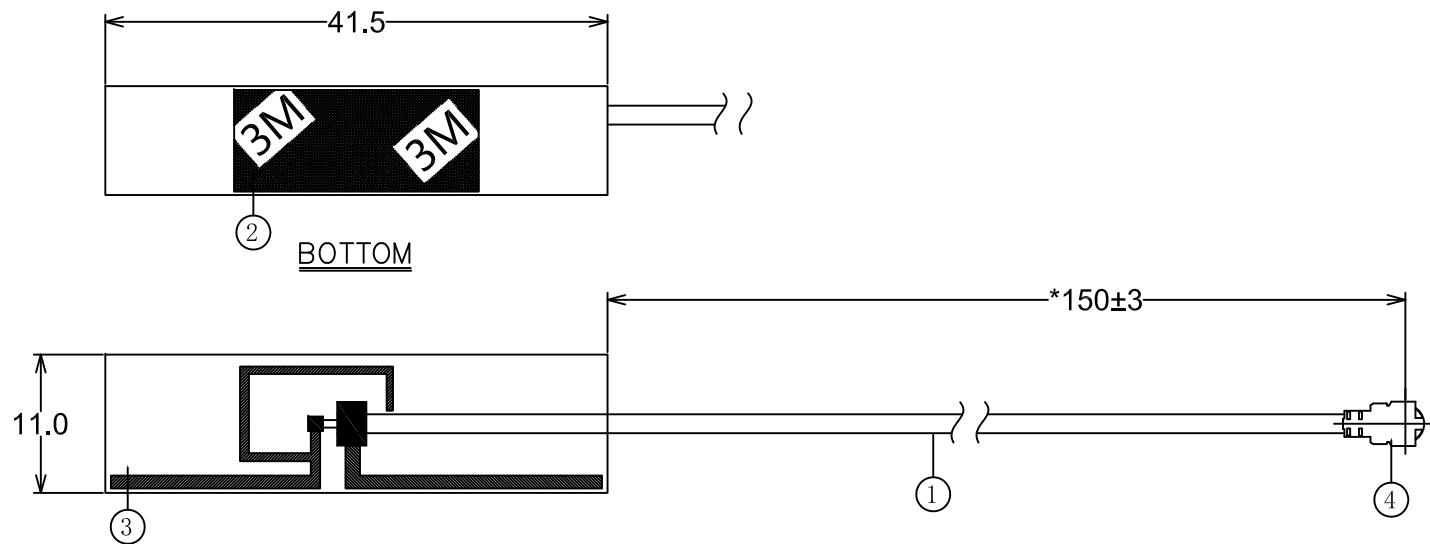
1. Electrical Properties

- 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) 3.13dBi
- 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

RoHS Compliant



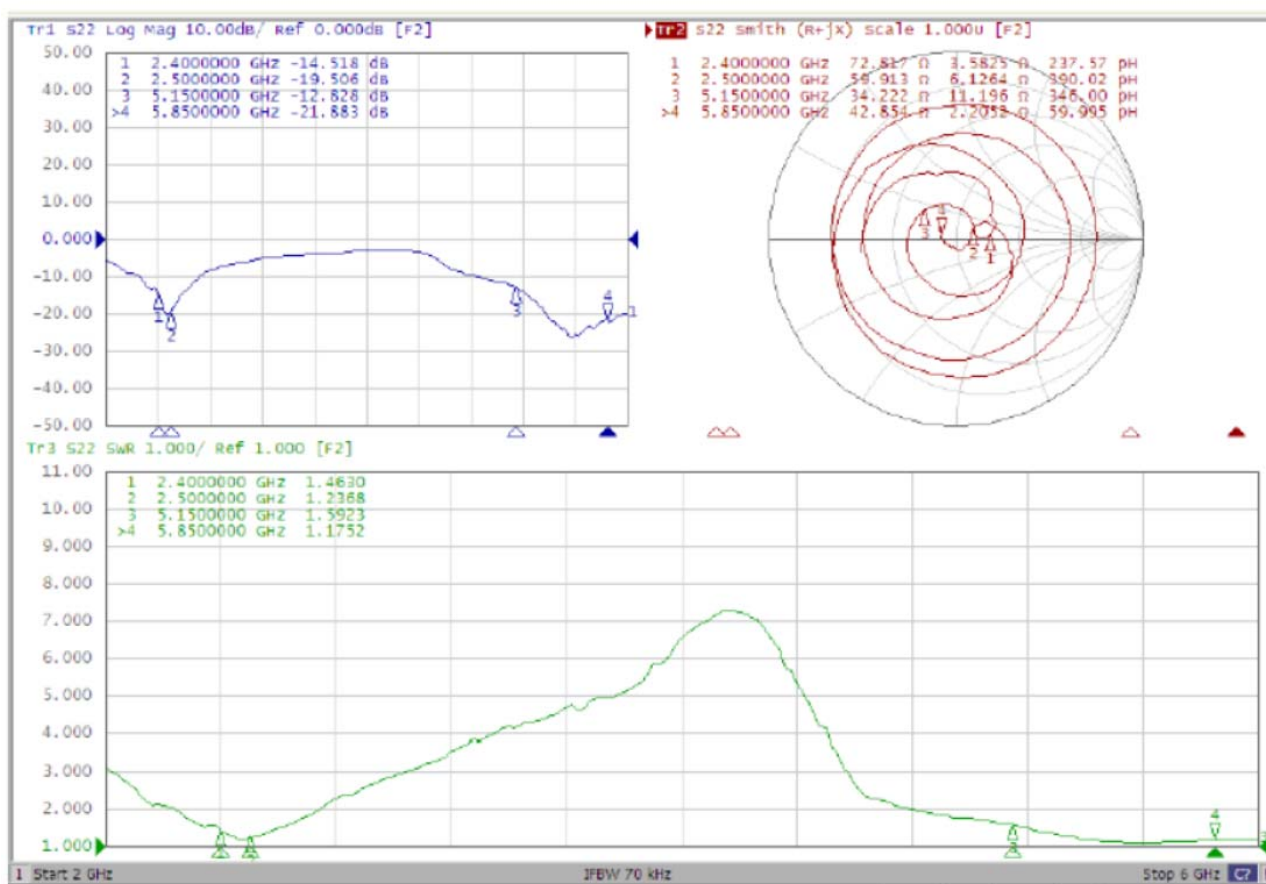
技术要求:

1. 芯线导体不能断或缺少
2. 阻抗: 50 欧姆
3. 不可有短路, 同轴线表面不能有刮伤
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 41.5/11.0/0.6mm
2	Head shink tube	1	EVA 20/10/0.7mm
1	Coaxial Cable	1	O.D. 1.13mm (BLACK)
NO	PART NAME	Q'TY	DESCRIPTION

				TOLERANCE		Hi-Link		TITLE: Wifi Antenna L=150mm MHF CABLE				
				LINEAR	ANGLES			PART NO. HLK-PCB-D				
				X.±0.40	X°.±			DWG NO. Hi001-03				
				.X±0.30	.X°.±	APPD: Jason	MAT'L:					
A		Kevin	2019/09/10	.XX±0.20	.XX°.±	CHKD: Schumi	FINISH:		UNITS	SCALE	SHEET	REV
REV	ECN NO.		DATE	.XXX±0.10	.XXX°.±	DRWN: Terry	Q'TY:		MM	1 : 1	1 OF 1	A

RF Antenna Assembly SPEC:2.4~5.8GHz





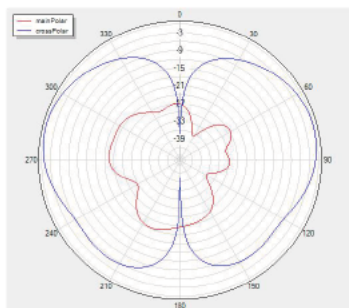
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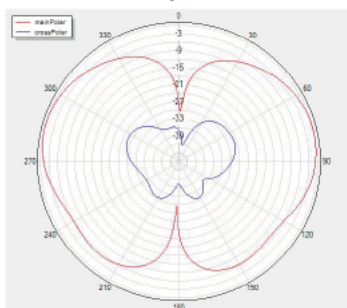
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	1.92	-1.95	63.76
2410	2.00	-2.14	61.13
2420	1.06	-1.84	65.43
2430	1.03	-1.61	69.09
2440	1.01	-1.76	66.65
2450	1.89	-1.76	66.74
2460	1.78	-1.52	70.55
2470	1.75	-1.61	68.95
2480	1.63	-1.75	66.77
2490	1.44	-1.80	66.08
2500	1.44	-2.03	62.62

frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率(dB)	efficiency 效率(%)
5000	1.26	-1.72	67.25
5050	1.7	-1.69	67.78
5100	2.12	-1.73	67.14
5150	2.28	-1.75	66.8
5200	2.73	-1.77	66.53
5250	2.27	-1.90	64.62
5300	3.00	-1.81	65.88
5350	3.00	-1.81	65.88
5400	2.65	-1.81	65.86
5450	2.07	-1.83	65.61
5500	1.90	-1.83	65.55
5550	1.94	-1.83	65.65
5600	1.73	-1.84	65.43
5650	2.14	-1.85	65.29
5700	2.45	-1.85	65.25
5750	2.75	-1.88	64.9
5800	2.82	-1.94	63.98
5850	2.48	-2.08	61.96
5900	2.37	-2.24	59.74

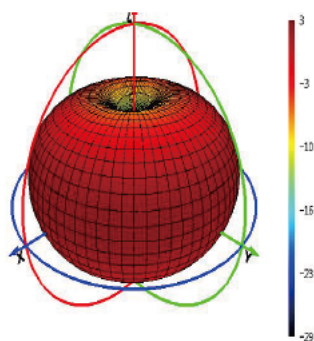
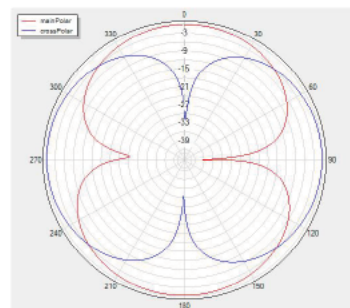
Phi=90 freq=2400MHz



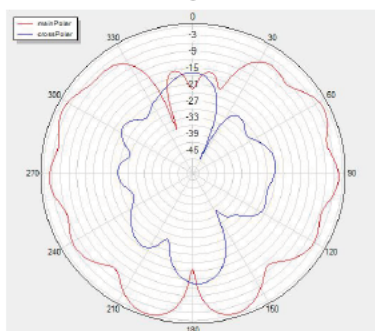
Phi=0 freq=2400MHz



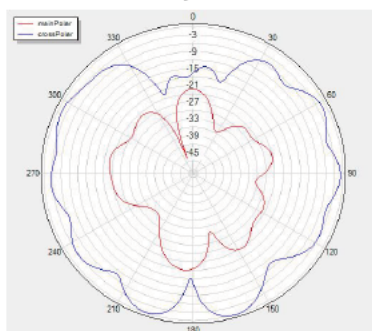
Theta=90 freq=2400MHz



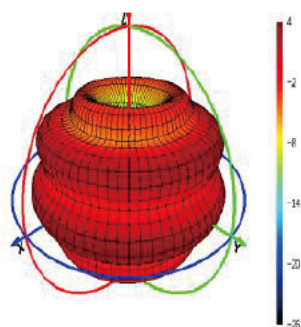
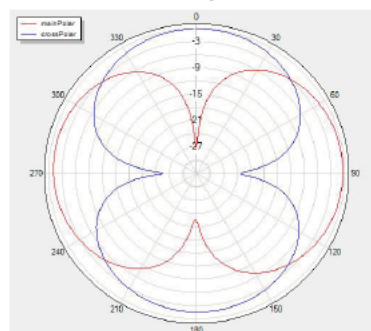
Phi=90 freq=5300MHz



Phi=0 freq=5300MHz



Theta=90 freq=5300MHz





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~END~