



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

Customer: _____

Product Name: HLK-B25 Bluetooth Module Antenna

Product code: HLK-B25

Customer code: _____

Sample date: 2026-4-23

HLK Confirm:

Approval	Quality	Engineer	Signature
David	Henry	lisa	

Customer Confirm:

Approval	Quality	Engineer	Signature
Confirm result: ☐ PASS ☐ NG ☐ Others			



深圳市海凌科电子有限公司

SHEN ZHEN Hi-LinK ELECTRICAL CO, LTD

SPECIFICATION ITEM

Item	Description
1.....	SPEC
2.....	SPEC ITEM
3.....	Engineer drawing
4.....	Performance



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SHEN ZHEN Hi-Link ELECTRICAL CO, LTD

RF Antenna Cable Assembly

Specification

1. Electrical Properties

1.1 Frequency Range.....Bluetooth

1.2 Impedance.....50 Ω Nominal

1.3 VSWR.....1.92:1MAX

1.4 Return Loss.....-14dB Max

1.5 Gain(peak)-5.46dBi

1.6 Polarization.....Linear Vertical

2. Physical Properties:

2.1 Antenna Material.....Cu

2.2 Operating Temp.....-20 $^{\circ}$ C- +65 $^{\circ}$ C

2.3 Storage Temp.....-30 $^{\circ}$ C- +75 $^{\circ}$ C

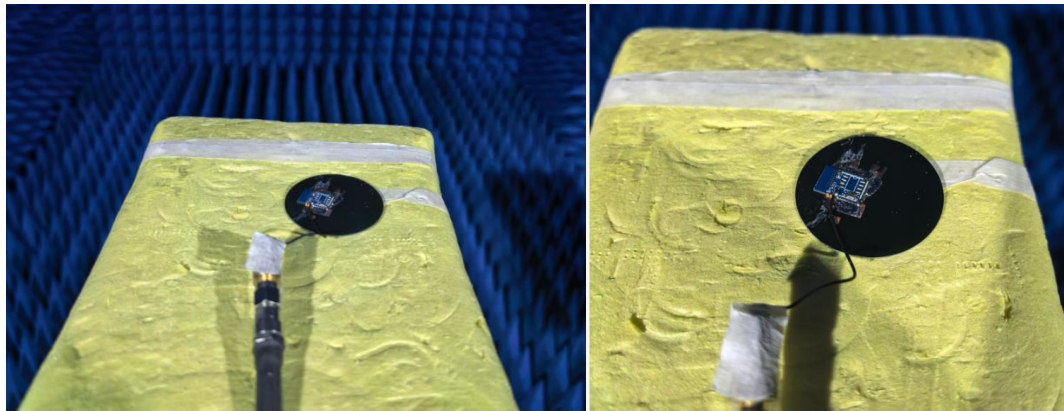


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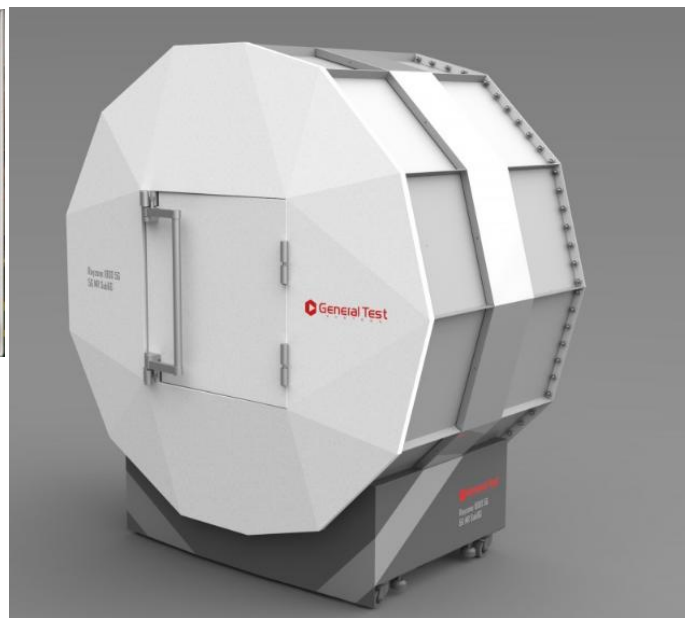
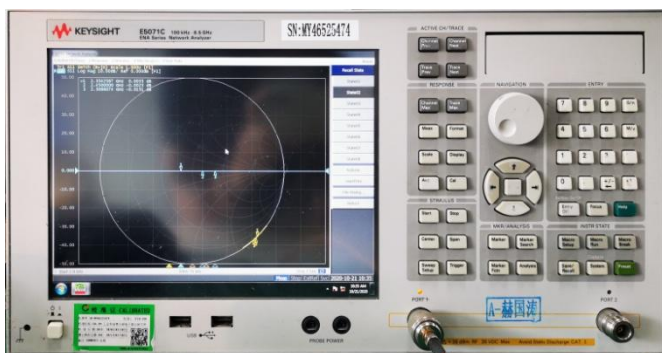
HLK-B25 Module onboard Antenna Test equipment

Test photo:



Antenna circuit:

Original Matched.



Test Address: Room 403A, Building 2, Kingkey Imperial Times Mansion, Huanggekeng Community, Longcheng Sub-district, Longgang District, Shenzhen City

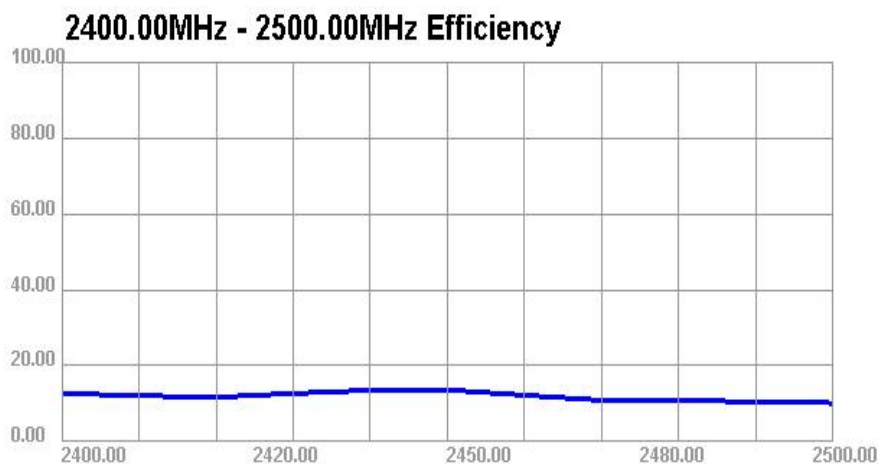
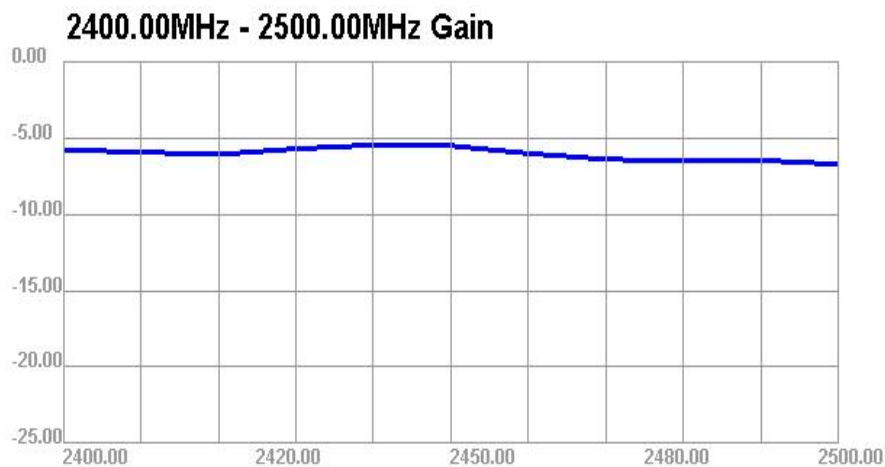


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Bluetooth Performance data:

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
2400	12.72	-8.96	-5.78	-7.93	7.461	5.259	-5.78	-16.3	3.17	105
2410	12.12	-9.17	-5.93	-8.08	7.031	5.084	-5.93	-15.94	3.24	105
2420	11.69	-9.32	-6.08	-8.23	6.696	4.995	-6.08	-15.68	3.25	105
2430	12.72	-8.96	-5.71	-7.86	7.22	5.497	-5.71	-15.67	3.25	105
2440	13.55	-8.68	-5.46	-7.61	7.618	5.931	-5.46	-15.9	3.22	105
2450	13.67	-8.64	-5.51	-7.66	7.616	6.051	-5.51	-16.66	3.13	105
2460	12.24	-9.12	-6.01	-8.16	6.729	5.514	-6.01	-17.31	3.11	105
2470	10.92	-9.62	-6.39	-8.54	5.955	4.964	-6.39	-17.89	3.22	45
2480	10.76	-9.68	-6.52	-8.67	5.819	4.941	-6.52	-17.55	3.16	45
2490	10.57	-9.76	-6.47	-8.62	5.739	4.834	-6.47	-17.65	3.29	45
2500	10.18	-9.92	-6.72	-8.87	5.526	4.656	-6.72	-17.65	3.2	45

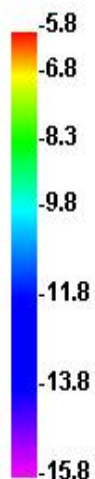
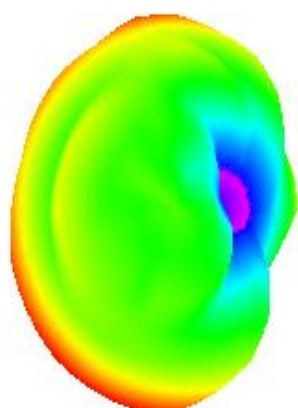


Frequency:2.40GHz

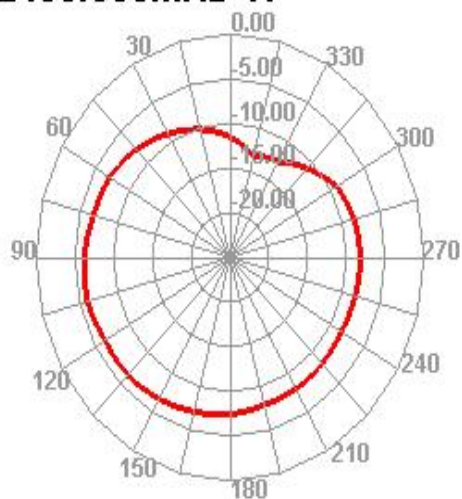
Peak Gain:-5.78dBi

Efficiency:12.72%

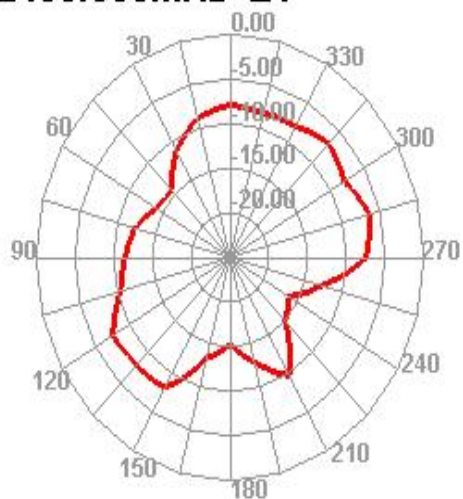
2400.000MHz



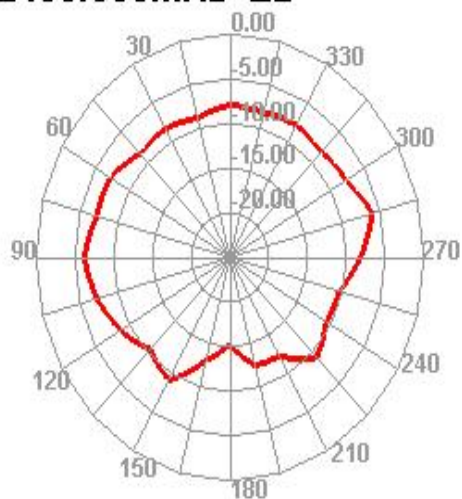
2400.000MHz H



2400.000MHz E1



2400.000MHz E2

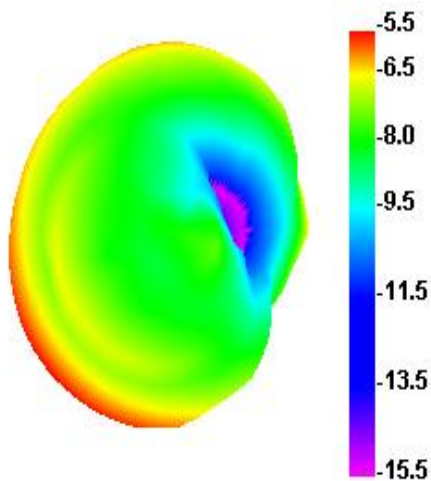


Frequency:2.45GHz

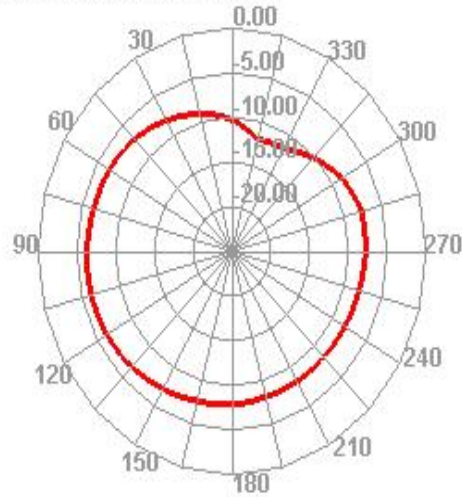
Peak Gain:-5.51dBi

Efficiency:13.67%

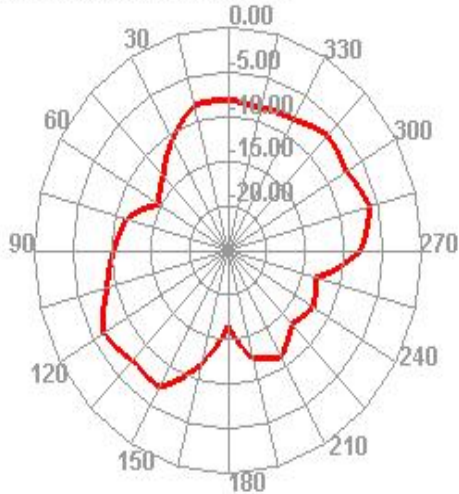
2450.000MHz



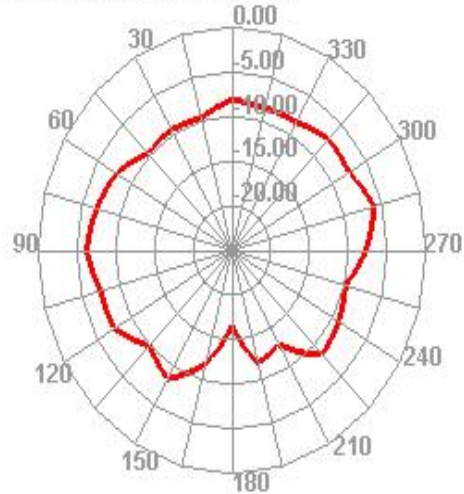
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

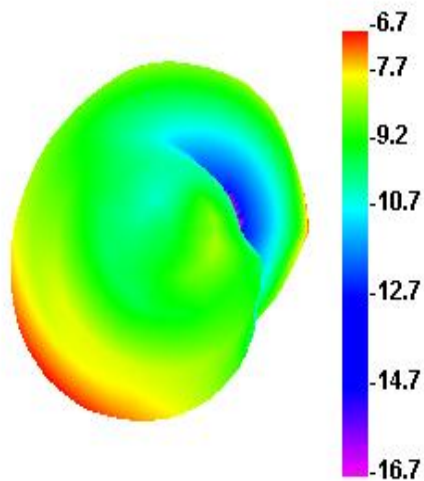


Frequency:2.50GHz

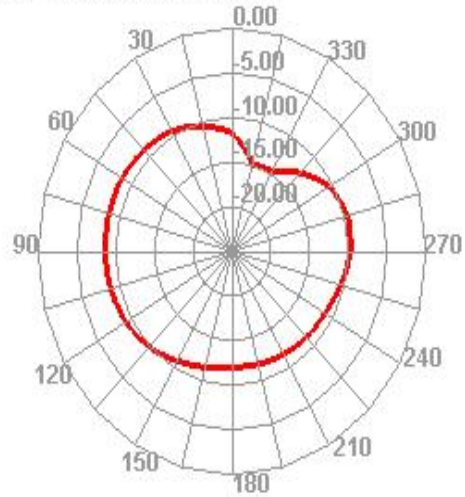
Peak Gain:-6.72dBi

Efficiency:10.18%

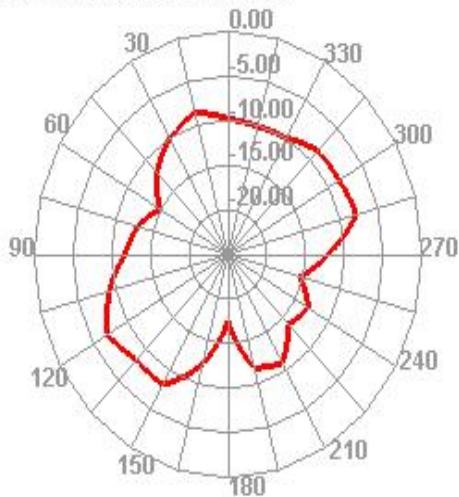
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

