

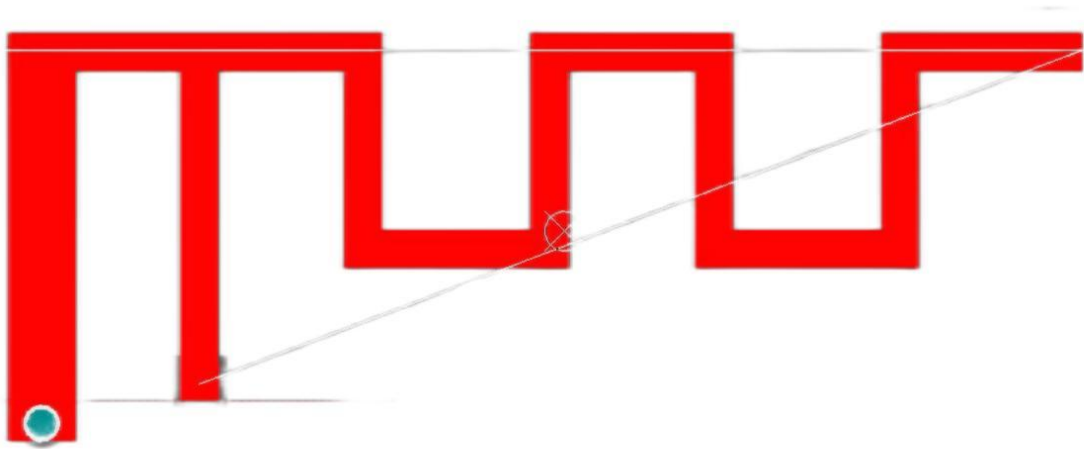
Product specification

Quick Reference Date

Model	BLBSA	
Antenna type	PCB	
Frequency	2.44GHz*1	
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)	
Tot. Rad. Pwr. (dBm)	-2.3 (Input pwr – loss pwr)	
Peak EIRP(dBm)	1.3	
Directivity (dBi)	1 (all direction antenna)	
Efficiency (dB)	-2.3 (58.5%)	
Gain (dBi)	1.7(Peak Gain XY-plane)	
Maximum Power (dBm)	1.3 (XY-plane)	
Minimum Power (dBm)	-4.5(XY-plane)	
Avg. Power (dBm)	-0.5(XY-plane)	
Max/Min Ratio (dB)	5.3(XY-plane)	
Max/Avg Ratio (dB)	1.8(XY-plane)	
Min/Avg Ratio (dB)	-3.5(XY-plane)	
Average Gain (dB)	-0.5 (Avg Gain XY-plane)	

All the technical data and information contained herein are subject to change without prior notice

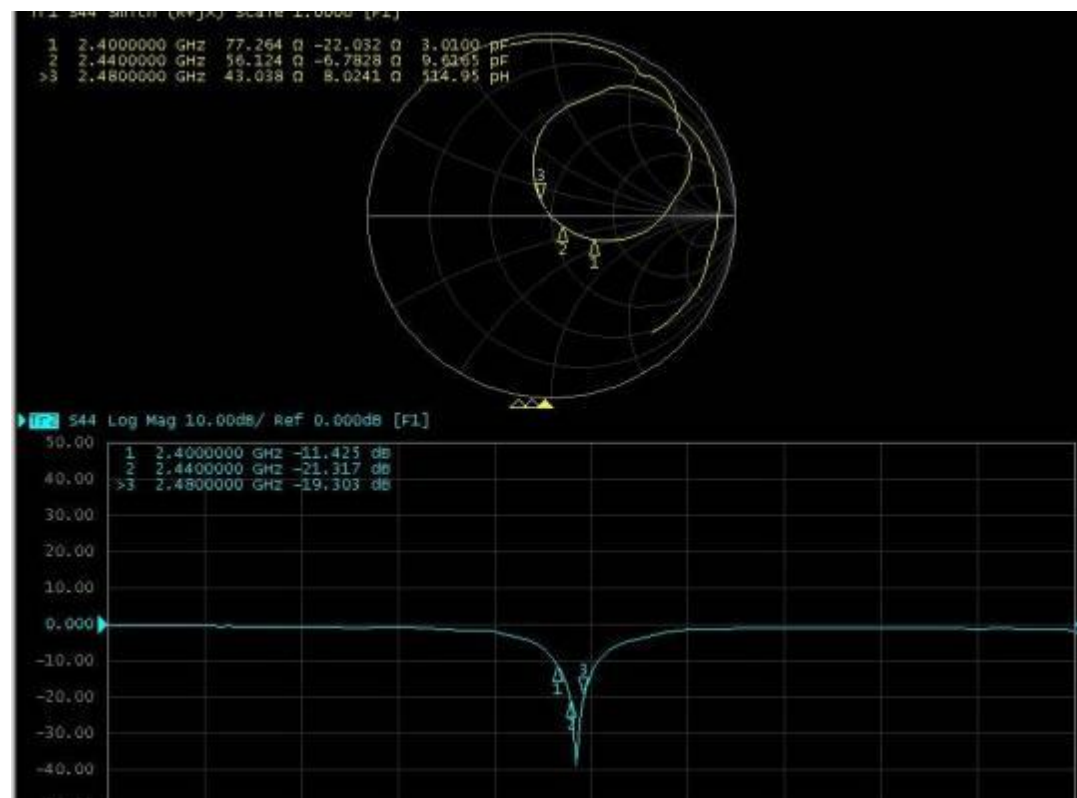
Antenna Layout & module on the system board



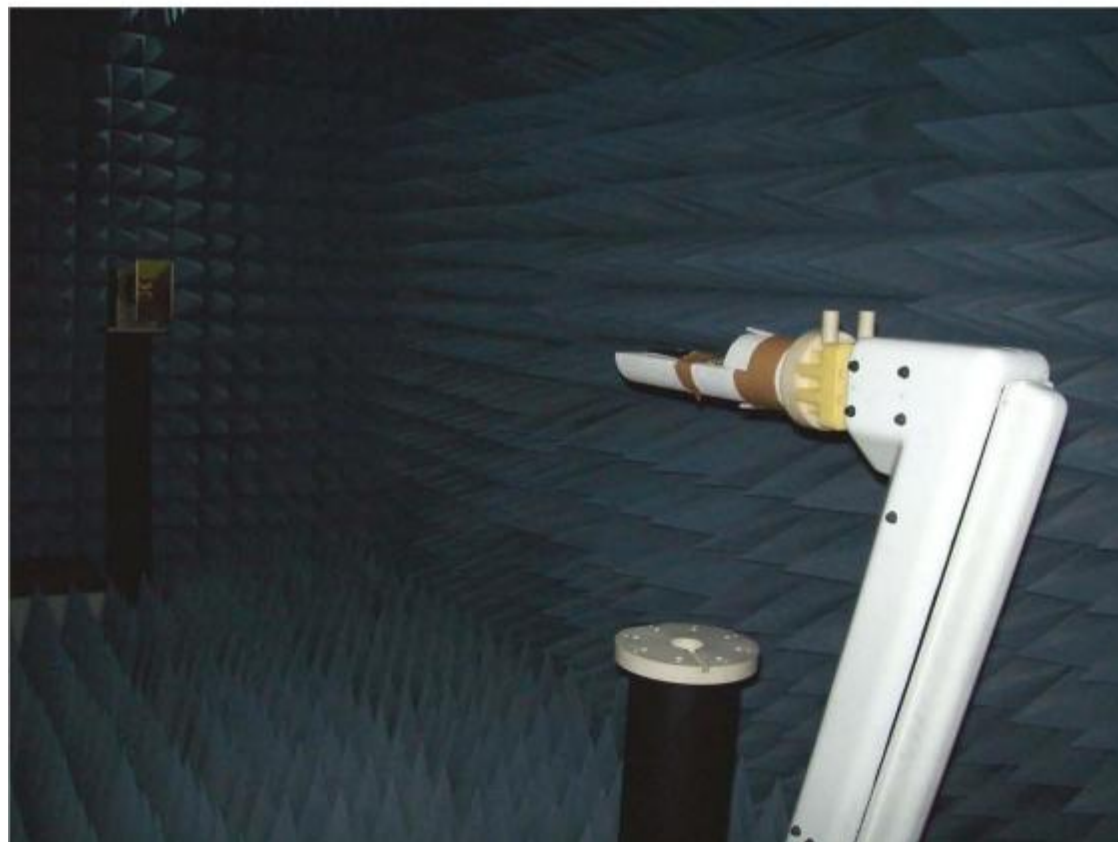
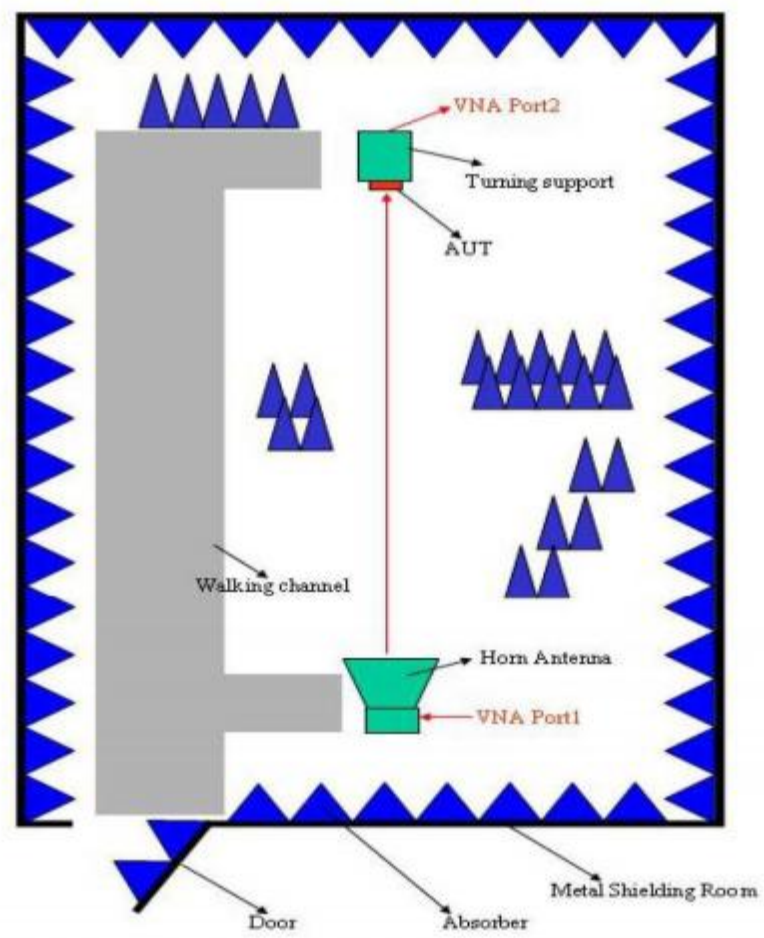
Antenna Gain

Unit in dBi @2.44GHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	1.3	-0.4	1.7	-3.7	1.1	-3.0	58.5%

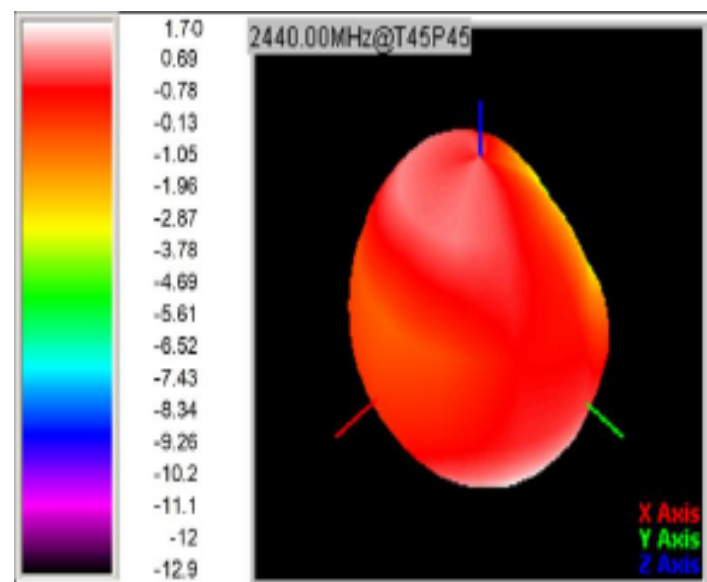
Manufacturer: Shenzhen Pinsheng Industrial Co., Ltd
Address: 5 / F, Pengzhou Industrial Park Office Building, No. 158, Fuyuan Road, Tangwei Community, Fuhai Street, Baoan District, Shenzhen



Return Loss

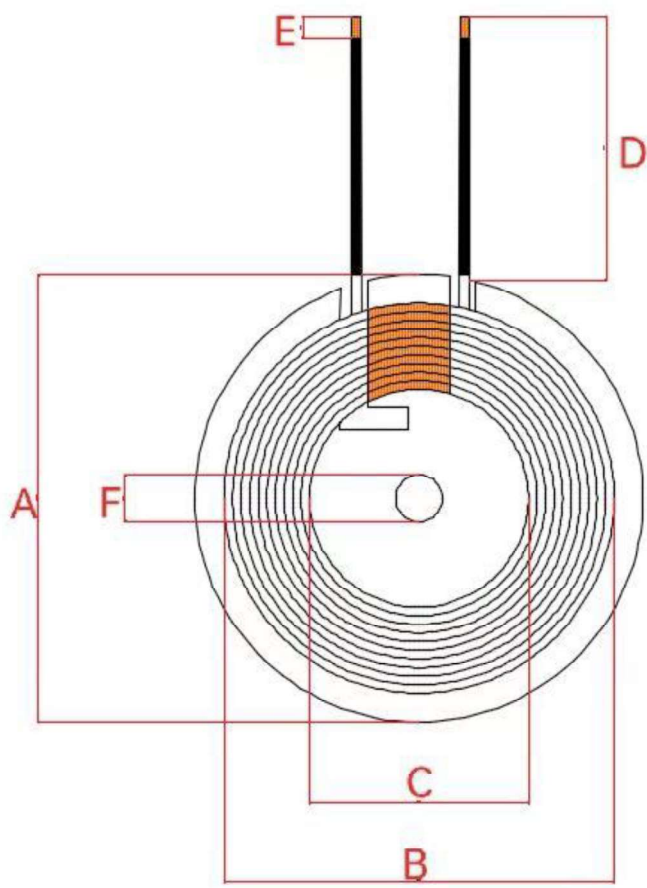


The Environment of Antenna Radiation Pattern



3D radiation pattern diagram

DIMENSION:(mm)
Wireless Charging: A11



A	49.5±0.5
B	42±0.5
C	20.5±0.5
D	30±2
E	3±2
F	5.3±0.2
G	
H	
I	
K	

三、绕线参数 Winding Specification:

序号 NO.	端子 TERMINAL		线径 WIRE	圈数 Turns	绕线方向 Winding Direction
1	S	F	丝包线 0.08*105P	10Ts	CCW

四、电气特性 ELECTRICAL CHARACTERISTICS:

温度 TEMPERATURE:25±10℃, 湿度 RELATIVE HUMIDITY:65±20%

序号 NO.	项目 ITEM	端子 TERMINAL	标准 SPECIFICATION	测试条件 TEST FREQUENCY	测试仪器 TEST EQUIPMENTS
1	IND.	S-F	3.7uH ±10%单独线圈	100KHz/1.0V	LCZ METER 1062B
2	IND.	S-F	6.4H ±10%加磁片	100KHz/1.0V	LCZ METER 1062B
3	DCR	S-F	≤55m Ω		LCZ METER 502B

拟制/日期 PREPARED BY/DATE	审核/日期 CHECKED BY/DATE
何立成 2023.09.26	