



深圳信诺山通信技术有限公司

Shenzhen Signalsen Telecom Technology Co., .Ltd

天线规格书

Antenna specification

物料编码: W700-1B290B-D (MAIN)
W701-1B390B-C (AUX)

客户： 词歌			项目名： 15.6 寸		
频段： WIFI/BT		日期： 20240104		版本： R:A	
我司研发	结构：	审核：		批准：	
	射频：	审核：			
客户研发承认：					
客户采购承认：					
客户质量承认：					

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一：产品图片 product pictures



二：产品参数 Product parameter

2、Product Electronic Features W700-1B290B-D(MAIN)		
2.1 Electrical performance specifications (Antenna)		
1	Polarization mode	vertical
2	Frequency range	2400-2500MHZ/5050-5850MHZ
3	Standing-wave ratio	$\leq 2.0/\leq 2.0$
4	bandwidth	100MHZ/800MHZ
5	impedance	50 ohm
6	Maximum gain	2.5dbi/2.4dbi
7	Power capacity	50W
8	Radiation direction	omnidirectional

2.2 Mechanical index			
dimension	26.54*23.75*0.1mm	Antenna color	black
Connector type	0.81 Black wire fourth generation IPEX welding	Lead length	290±2mm
operating temperature	-40℃--+85℃	Storage temperature	-40℃--+85℃

2、Product Electronics W701-1B390B-C (AUX)			
2.1 Electrical performance specifications (Antenna)			
1	Polarization mode	vertical	
2	Frequency range	2400-2500MHZ/5050-5850MHZ	
3	Standing-wave ratio	≤2.0/≤2.0	
4	bandwidth	100MHZ/800MHZ	
5	impedance	50 ohm	
6	Maximum gain	1.9dbi/2.4dbi	
7	Power capacity	50W	
8	Radiation direction	omnidirectional	
2.2 Mechanical index			
dimension	25.65*18.84*0.1mm	Antenna color	black
Connector type	0.81 Gray wire fourth generation IPEX welding	Lead length	390±3mm
Operating temperature	-40℃--+85℃	Storage temperature	-40℃--+85℃

三：无源参数 Passive parameter

W700-1B290B-D(MAIN) Standing Wave ratio:

frequency (MHZ)	2400	2500	5050	5850
Standing wave	1.19	1.17	1.52	1.51



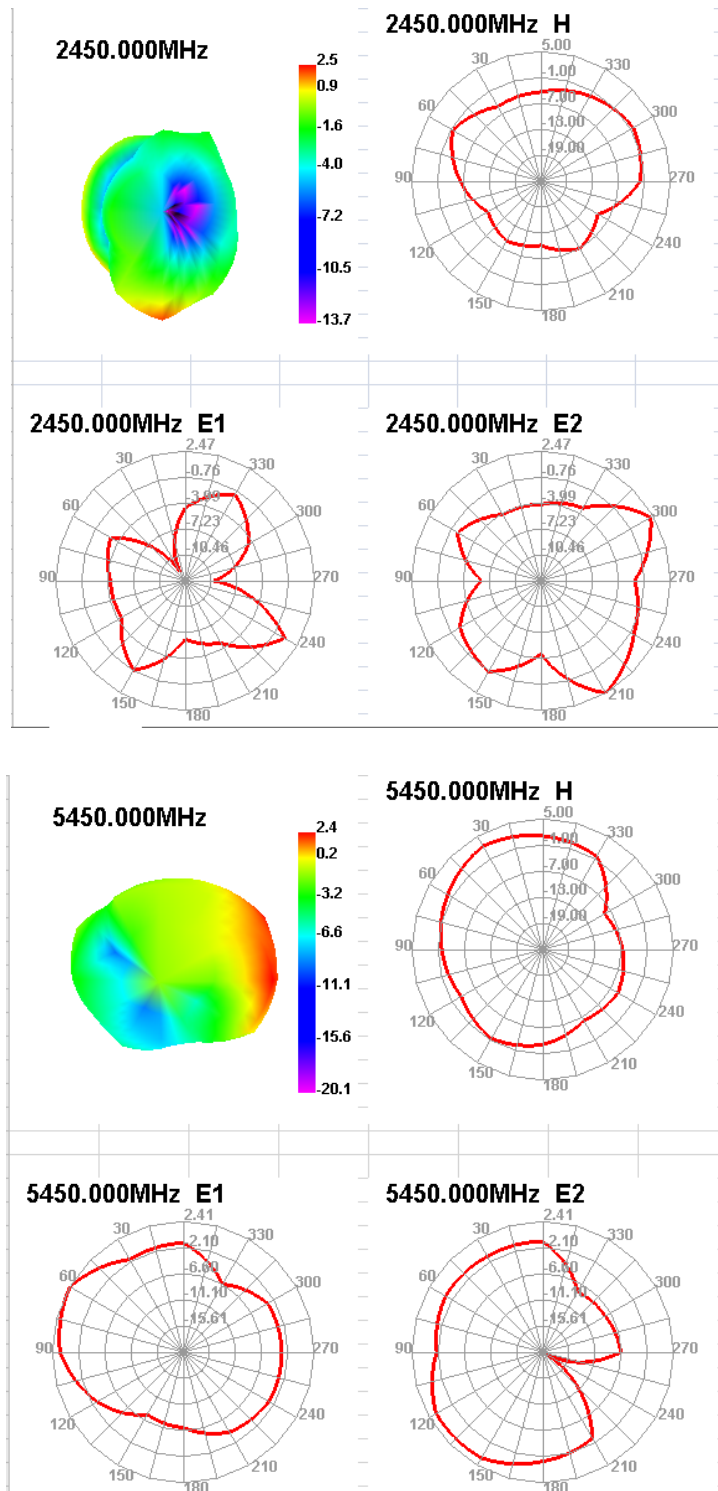
W701-1B390B-C(AUX) Standing Wave ratio:

frequency (MHZ)	2400	2500	5050	5850
Standing wave	1.49	1.27	1.59	1.56



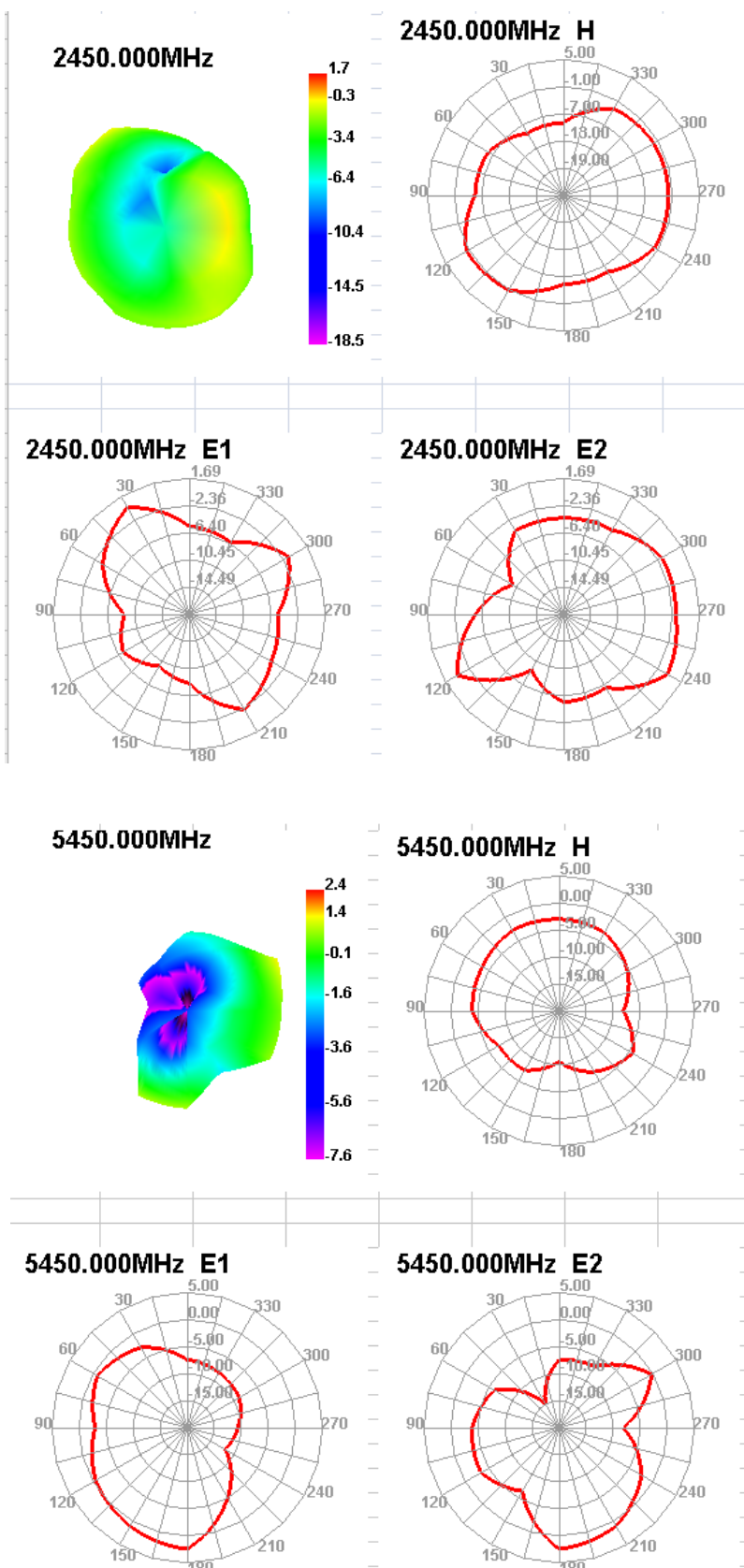
W700-1B290B-D(MAIN) Efficiency and gain:

BAND	WIFI					
Freq.[MHZ]	2400	2450	2500	5050	5450	5850
Eff.[%]	53.58	54.48	54.78	56.43	58.30	59.48
Peak Gain [dBi]	2.3	2.5	2.2	2.3	2.4	2.3



W701-1B390B-C(AUX) Efficiency and gain:

BAND	WIFI/BT					
Freq.[MHZ]	2400	2450	2500	5050	5450	5850
Eff.[%]	50.42	51.22	50.18	55.43	56.28	54.52
Peak Gain [dBi]	1.7	1.7	1.9	2.1	2.4	1.7



四：可靠性能测试 **Reliable performance test:**

项目 item	测试条件 Test condition	规格 specification
存储环境 Storage environment	在没有指定的情况下测试温度，湿度，气压如下： 1. 温度为-30℃—+80℃ 2. 相对湿度为 45%-85% 3. 气压为 86kpa—106kpa Test temperature, humidity, and air pressure without specifying the following: 1. The temperature is -30 °C - +80°C 2. Relative humidity is 45%-85% 3. The air pressure is 86Kpa-106kpa	电气机械性能正常 Electrical and mechanical properties are normal
高低温试验 High and low temperature test	在 70℃与 40℃之间进行 5 次循环，然后在正常条件下 1-2H，检查外观质量。 The appearance quality is checked after 5 cycles between 70 ° C and 40 ° C, and then 1-2H under normal conditions.	尺寸应满足规定并应满足于机械，电气性能 Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
耐恒定湿热试验 Resistance to constant damp heat test	相对湿度 95±3%，试验温度：40℃.持续 2H 小时作用后，试品取出后 5min 之内测定电气性能，试品在正常情况下 1-2H，检查外观质量。 The relative humidity is 95±3%, the test temperature is 40°C. After 2H hours of action, the electrical properties of the test product are measured within 5 minutes after taking out, and the appearance quality of the test product is checked under normal conditions for 1-2H.	尺寸应满足规定并应满足于机械，电气性能 Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties

振动试验 Vibration test	振频范围 10-55HZ，位移幅值： 0.35mm，加速度幅值：50.0M/S， 扫频循环次数：30 次 Vibration frequency range 10-55HZ, displacement amplitude: 0.35mm, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times	电气机械性能正常 Electrical and mechanical properties are normal
跌落试验 Drop test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	电气机械性能正常 Electrical and mechanical properties are normal

AUX

