



Shenzhen Signalsen Telecom Technology Co , .Ltd

Antenna specification sheet

material code: WB-W700-1B305B-D (MAIN)
WB-W701-1B395B-C (AUX)

Microstep motherboard

Customer: Beishida		Project Name: 15.6-inch	
Frequency band:WIFI/BT		20231011	Version: R:A

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1:Product images



2: Product parameters

2、Product electronic characteristics WB-W700-1B305B-D (MAIN)			
2.1 Electrical performance index (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	2.5dbi/2.4dbi	
7	Power Capacity	50W	
8	Radiation direction	Omnidirectional	
2.2 Mechanical indicators			
size	26.54*23.75*0.1mm	Antenna color	black
Connector model	0.81 black wire fourth generation IPEX welding	Lead length	305±2mm
operation temperature	-40℃-+85℃	Storage temperature	-40℃-+85℃

2、Product electronic characteristics WB-W701-1B395B-C (AUX)			
2.1 Electrical performance index (Antenna)			
1	olarization 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 indicators			
size	25.65*18.84*0.1mm	Antenna color	black
Connector model	0.81 black wire fourth generation IPEX welding	Lead length	395±3mm
operation temperature	-40℃-+85℃	Storage temperature	-40℃-+85℃

3: Passive parameters

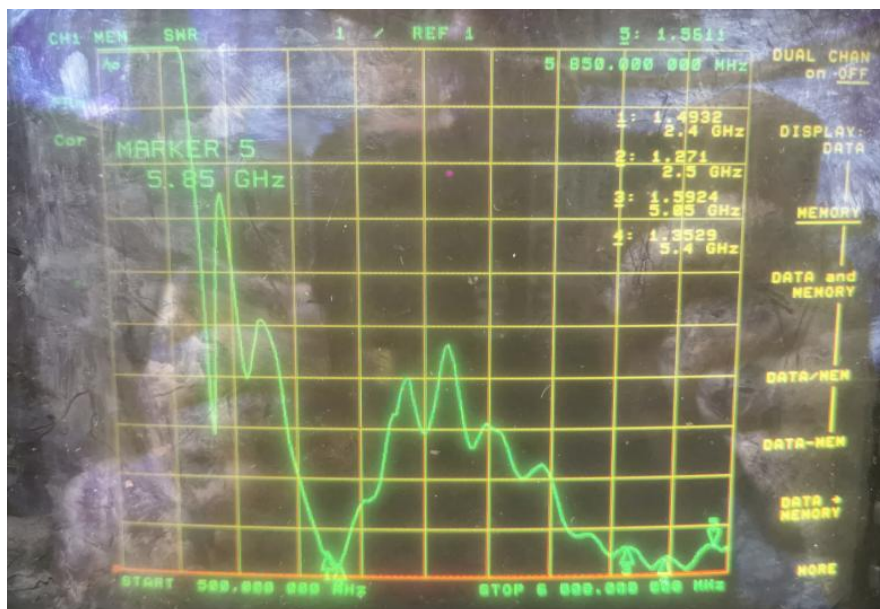
WB-W700-1B305B-D(MAIN)standing-wave ratio:

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



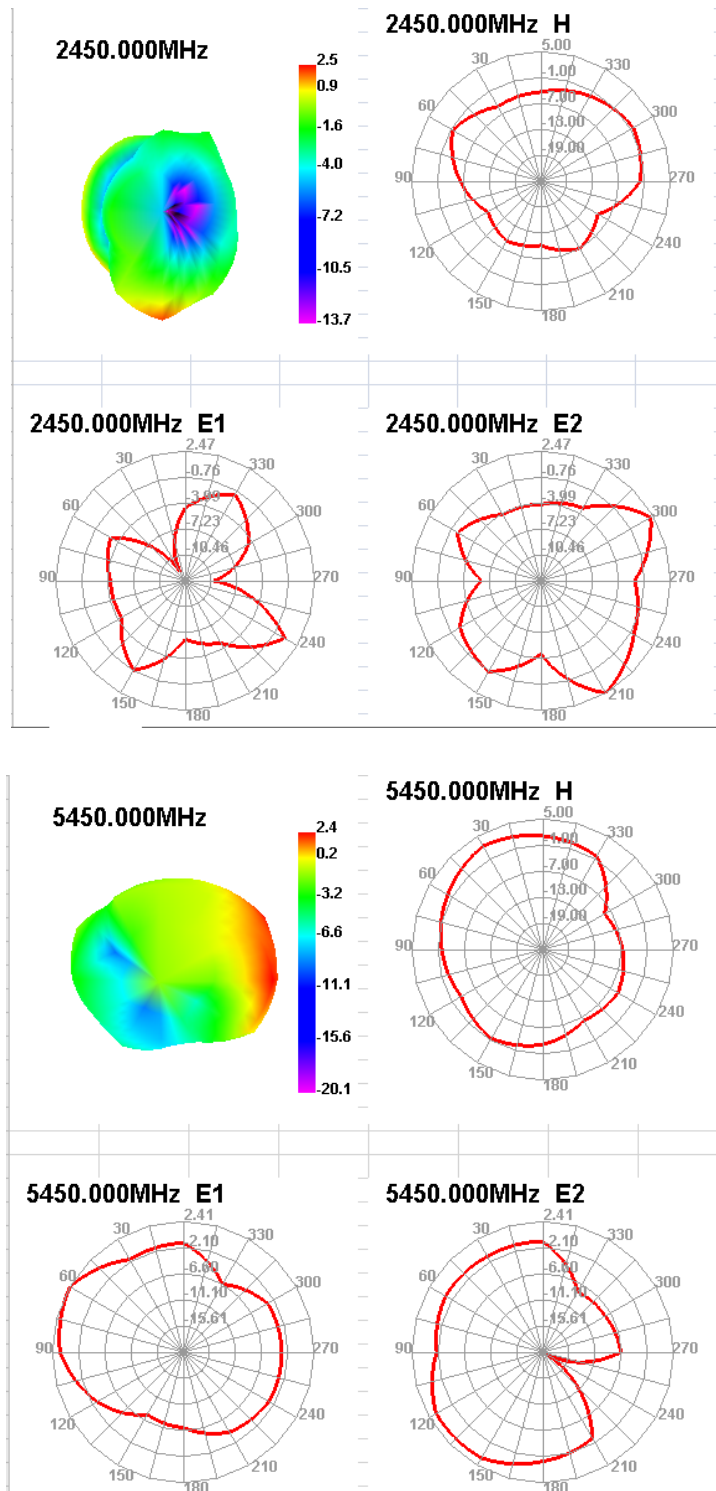
WB-W701-1B395B-C(AUX)standing-wave ratio:

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



WB-W700-1B305B-D(MAIN)Efficiency and gain:

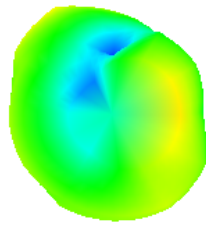
BAND	WIFI/BT					
Freq.[MHZ]	2400	2450	2500	5050	5450	5850
Eff.[%]	53.58	54.48	54.78	56.43	58.30	59.48
Peak Gain [dBi]	2.3	2.5	2.2	2.3	2.4	2.3



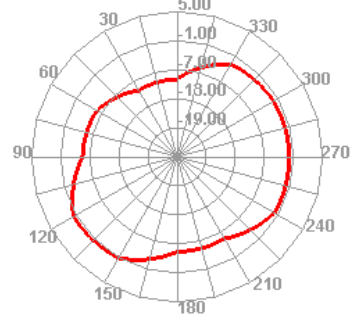
WB-W701-1B395B-C(AUX)Efficiency and gain:

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

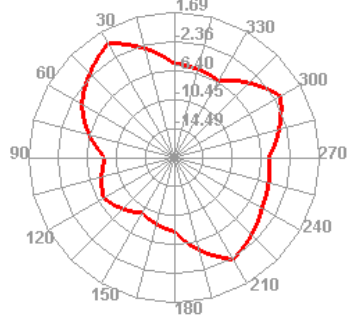
2450.000MHz



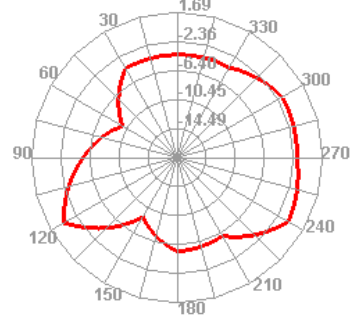
2450.000MHz H



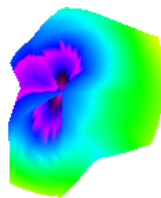
2450.000MHz E1



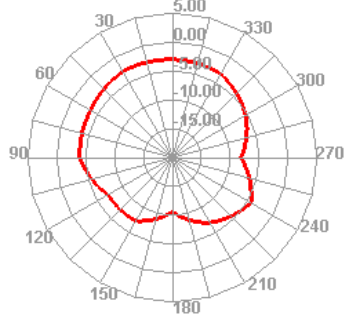
2450.000MHz E2



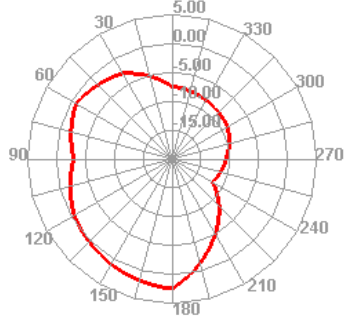
5450.000MHz



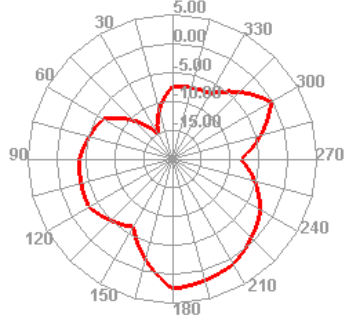
5450.000MHz H



5450.000MHz E1

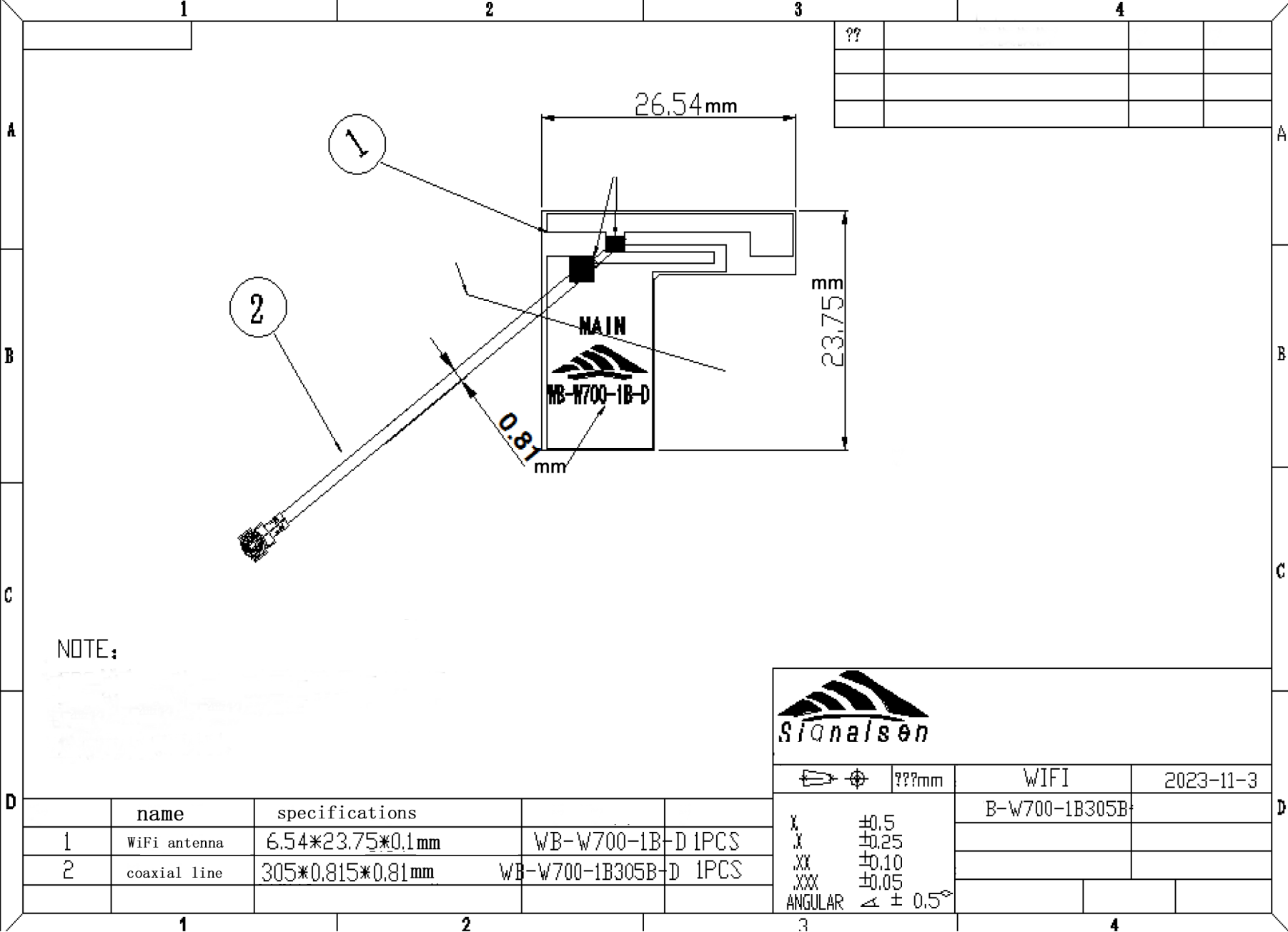


5450.000MHz E2



4: Reliability testing

Project	Test conditions	Specifications
storage environment	1. Temperature range from -30 °C to +80 °C 2. Relative humidity is 45% -85% 3. The air pressure is between 86kpa and 106kpa	Normal electrical and mechanical performance
High and low temperature test	Perform 5 cycles between 70 °C and 40 °C , and then inspect the appearance quality under normal conditions for 1-2 hours.	The size should meet the specifications and meet the mechanical and electrical performance requirements
Constant humidity and heat resistance test	Relative humidity of $95 \pm 3\%$, test temperature: 40 °C . After continuous action for 2 hours, the electrical performance of the test sample shall be measured within 5 minutes after removal. The test sample shall be inspected for appearance quality under normal conditions for 1-2 hours.	The size should meet the specifications and meet the mechanical and electrical performance requirements
Vibration	Vibration frequency range 10-55Hz, displacement amplitude: 0.35mm, acceleration amplitude: 50.0M/s, frequency sweep cycles: 30 times	Normal electrical and mechanical performance
Drop Test	Free fall three times from a height of 1M in the direction of mutually perpendicular axes	Normal electrical and mechanical performance



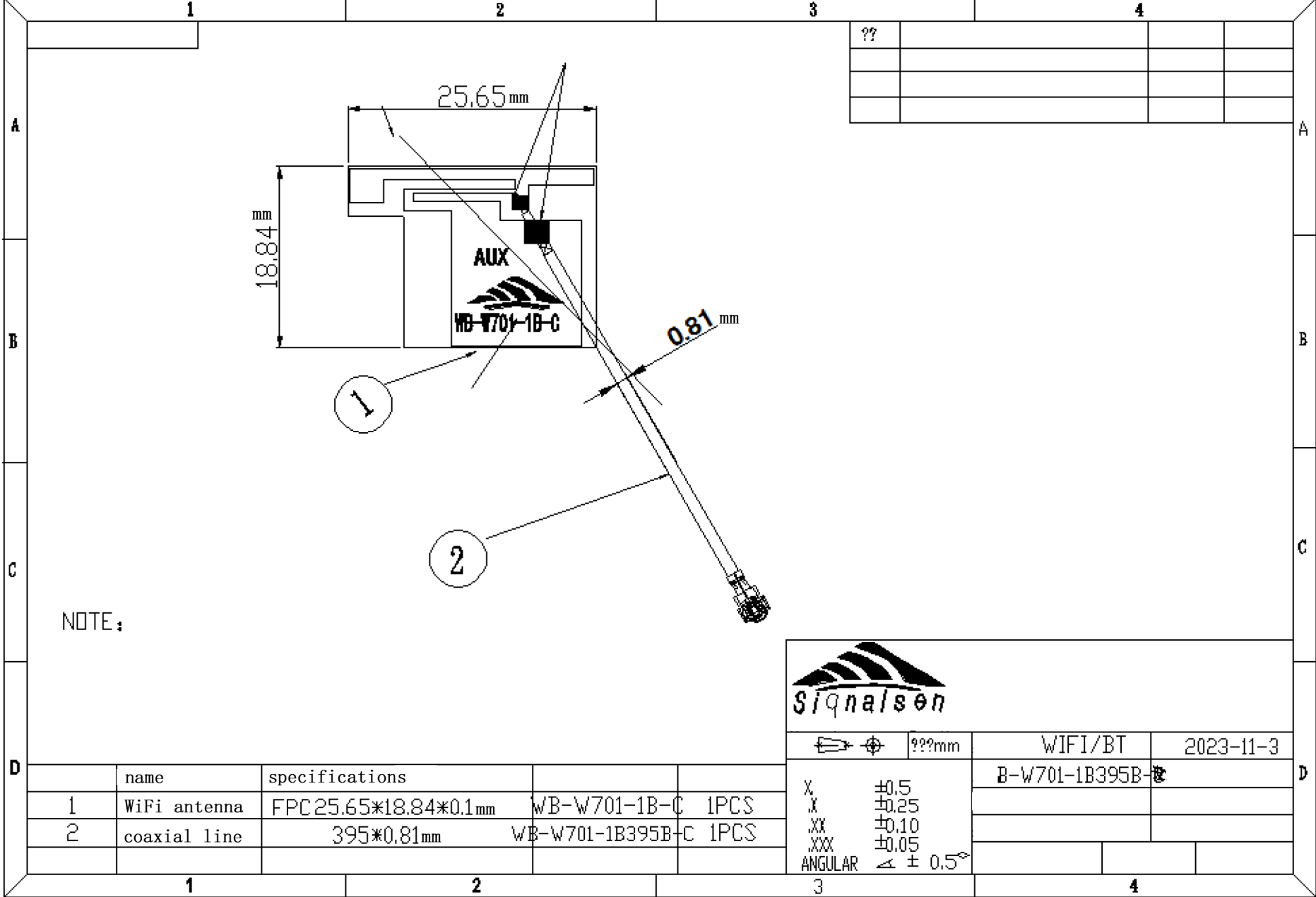
NOTE:



	name	specifications		
1	WiFi antenna	6.54*23.75*0.1mm	WB-W700-1B-D	1PCS
2	coaxial line	305*0.815*0.81mm	WB-W700-1B305B-D	1PCS

	??mm	WiFi	2023-11-3
X	±0.5	B-W700-1B305B	
.X	±0.25		
.XX	±0.10		
.XXX	±0.05		
ANGULAR	≤ ± 0.5°		

AUX



??			

	???mm	WIFI/BT	2023-11-3
X	±0.5	B-W701-1B395B-C	
.X	±0.25		
.XX	±0.10		
.XXX	±0.05		
ANGULAR	≤ ± 0.5°		

6: Antenna placement position

