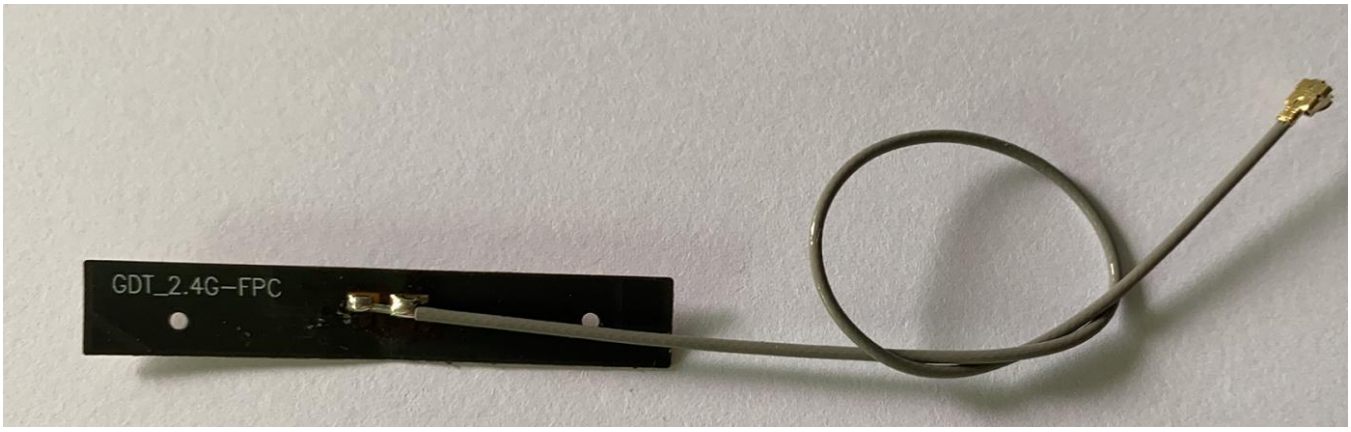
一、 Product pictures



二、Product parameters

Product testing parameters			
Product name	**FPC**	**(Model Type)**	GDT-P2.4--L90
(Electrical Specifications)			
(Frenquency Range)	2400-2500MHz	**（Polarization）**	perpendicular
(Impedance)	50 欧	**Radiation**	QXCOMM
（VSWR）	≦2.0	**(Power)**	50W
(Gain)	3dBi	**(Bandwidth**	100M
(Mechanical Specifications)			
(Dimensions)	50±1mm*8±0.5mm	**(Chassis Color)**	black
(Connector)	IPEX	**(Cable Length)**	90±5MM
(Chassis Material)	FPC		
(Working Temperature)	-40℃-+85℃	**(Limit Temperature)**	-40℃-+85℃

三、S11(VSWR、Return、Smith)

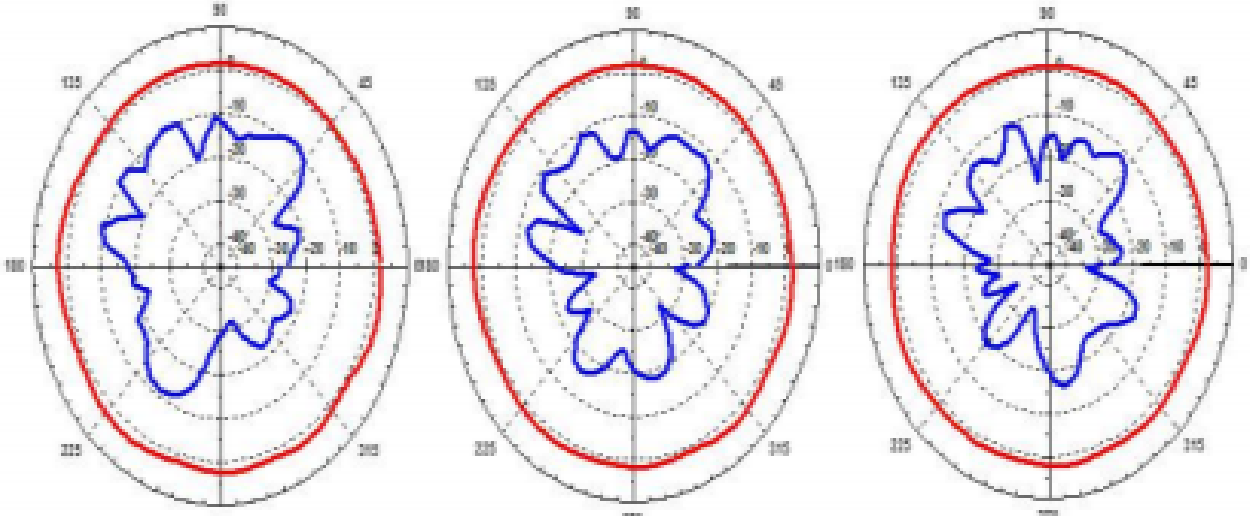
四、Antenna gain and efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	E
1	2400.0	2400.00	2.34	5.51	56.0%	
2	2410.0	2410.00	2.55	5.82	54.0%	
3	2420.0	2420.00	2.54	6.12	53.9%	
4	2430.0	2430.00	3.08	6.30	60.6%	
5	2440.0	2440.00	3.15	6.27	58.7%	
6	2450.0	2450.00	3.23	6.34	57.1%	
7	2460.0	2460.00	2.15	6.41	52.2%	
8	2470.0	2470.00	2.96	6.29	52.1%	
9	2480.0	2480.00	2.72	6.00	51.9%	
10	2490.0	2490.00	2.64	6.05	49.7%	
11	2500.0	2500.00	2.63	6.02	47.3%	

Electrical Performance-Radiation Pattern and Gain

H-Plane

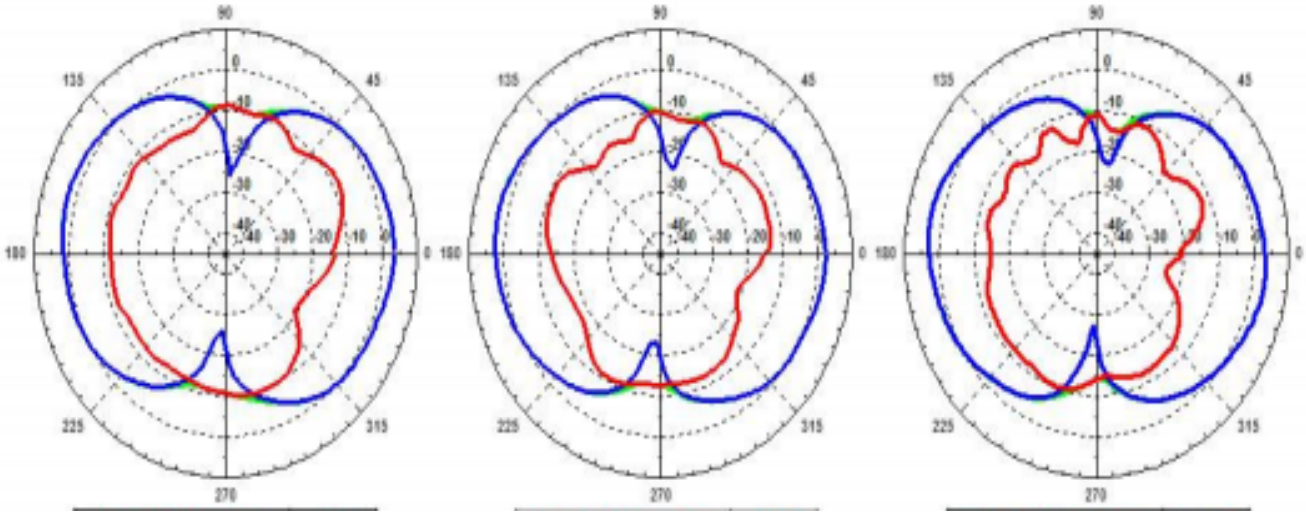
2400MHz 2450MHz 2500MHz



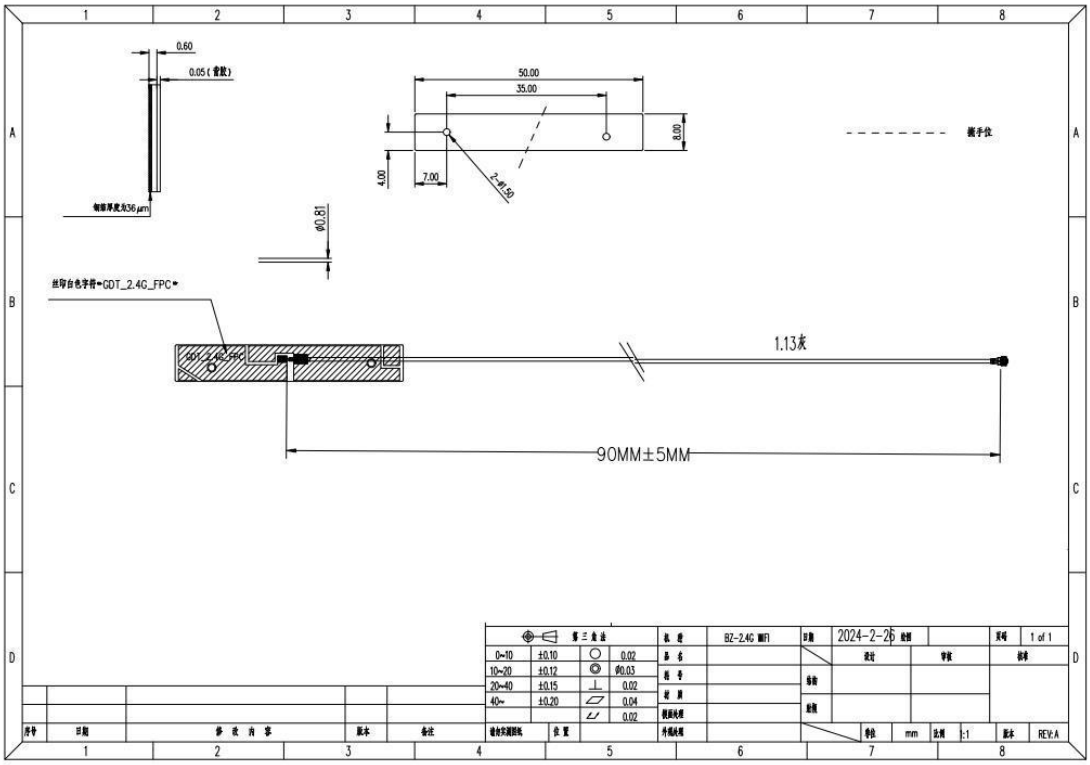
Electrical Performance-Radiation Pattern and Gain

E-Plane

2400MHz 2450MHz 2500MHz



五、Structural drawings



六、Environmental performance test

project	Project test conditions	Specifications
Storage environment	The test temperature, humidity and air pressure are as follows when there is no specific condition: 1. The temperature is - 30 ℃~+80 ℃ 2. Relative humidity: 45% - 85% 3. The air pressure is 86kpa-106kpa	Normal electrical and mechanical performance
High and low temperature test	5 cycles between 70 ° C and 40 ° C, then under normal conditions1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance

Constant damp heat resistance test	Relative humidity: 95 ± 3%, test temperature: 40 ℃. After lasting for 2h, The electrical performance shall be measured within 5 minutes after the test object is taken out, and the test object shall be within the normal range Part 1-2H, check the appearance quality	The size shall meet the requirements and Mechanical and electrical performance
vibration test	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 for 3 times in the direction of mutually perpendicular axes at a height of 1M	Normal electrical and mechanical performance