

E901 Module

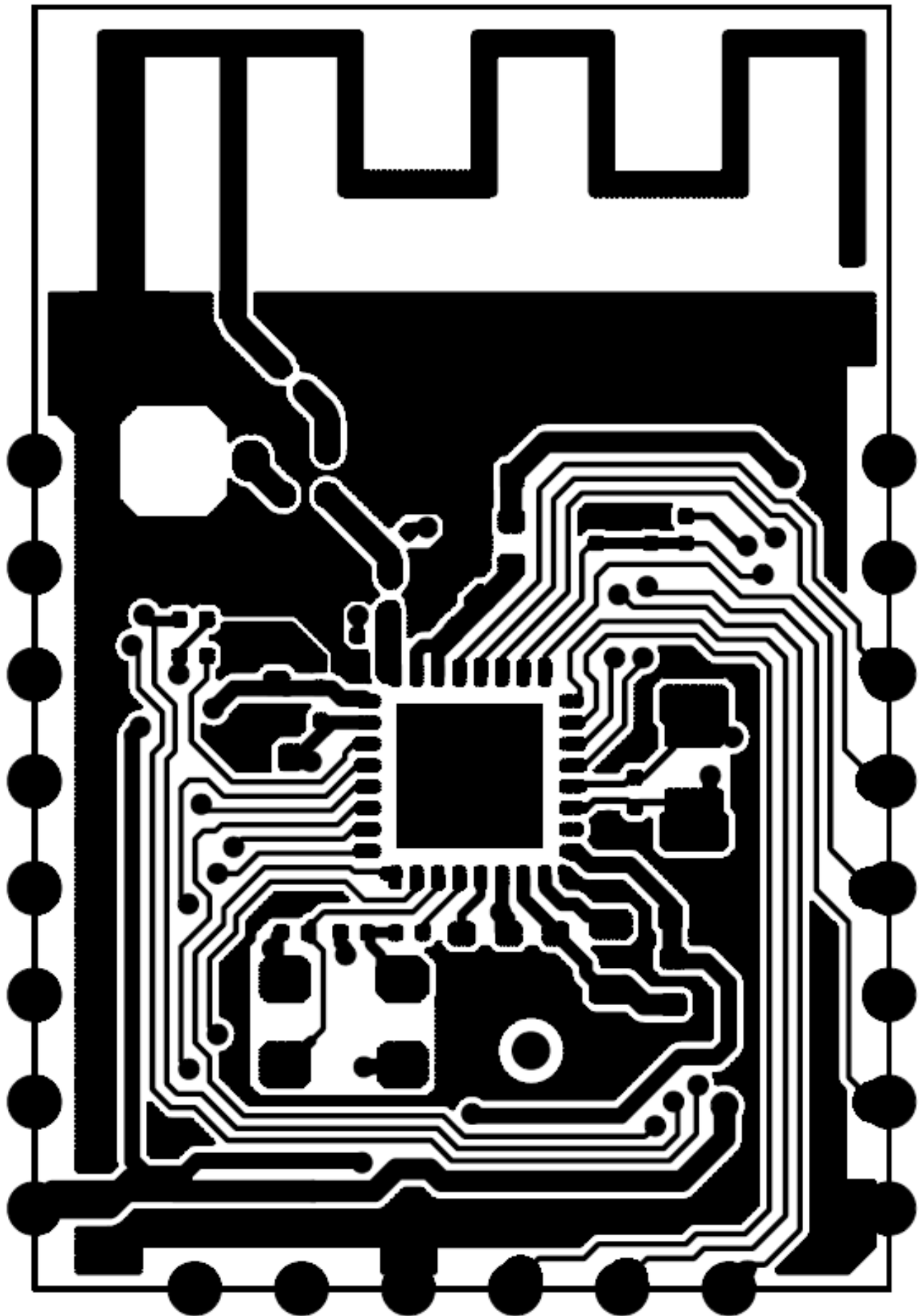
PCB Antenna Datasheet

Version Ver1.0

History

Document Release	Date	Modification	Initials	Approved
Version V1.0	2025/04/16			

1. E901 Module PCB antenna Layout

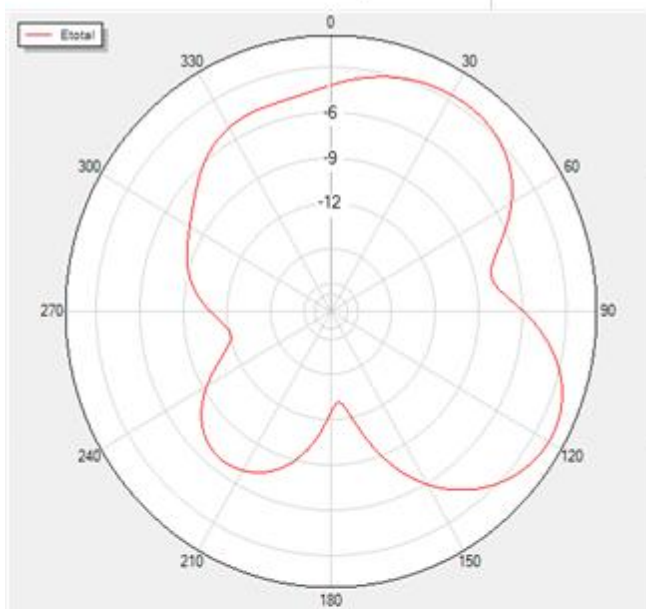


2. PCB antenna Electrical Specification

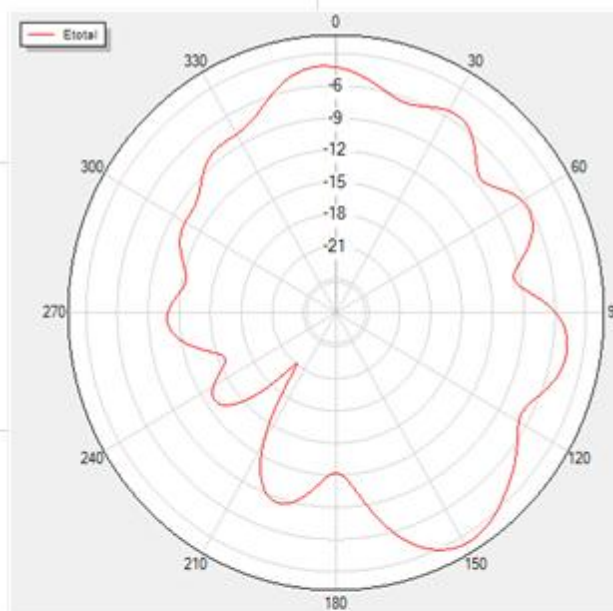
Frequency Range	2400-2500MHz
Impedance	50Ω
Gain(dBi)	-0.8dBi
VSWR	<2
Operation Temperature	-40℃~+85℃
Power Capacity	3W

3. PCB antenna Radiation Pattern

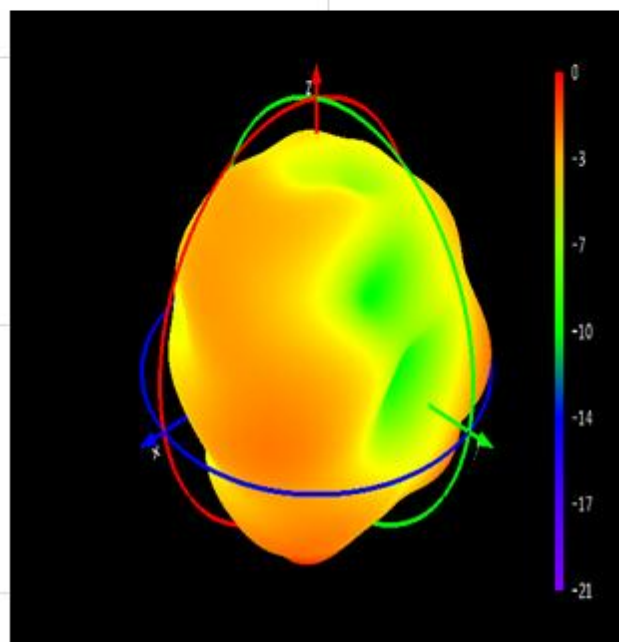
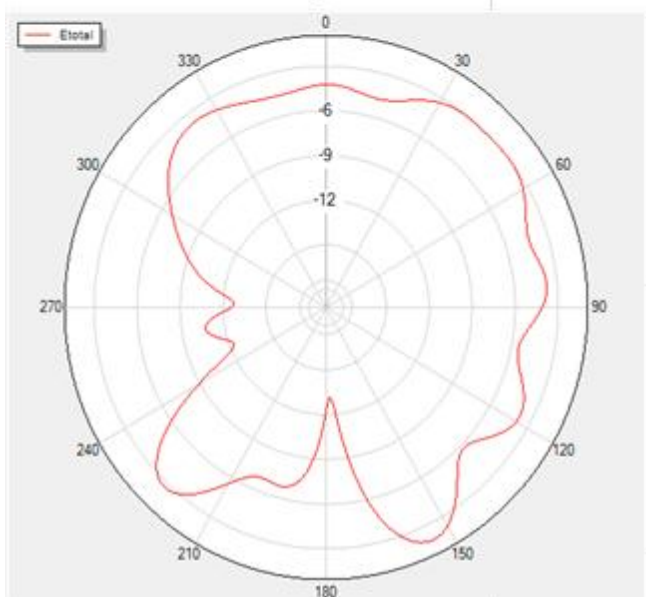
Theta=90 Freq=2400MHz



Phi=90 Freq=2400MHz



Phi=0 Freq=2400MHz



4. PCB antenna Gain & Efficiency

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.35	-4.58	34.86
2410	-0.32	-4.63	34.43
2420	-0.45	-4.79	33.22
2430	-0.66	-4.96	31.89
2440	-0.85	-5.11	30.85
2450	-1.02	-5.23	30.01
2460	-1.17	-5.34	29.24
2470	-1.22	-5.41	28.78
2480	-1.22	-5.47	27.38
2490	-1.31	-5.60	26.57
2500	-1.38	-5.75	26.60
Average Value	-0.81	-5.06	31.30

5. PCB antenna S Parameter

