

Supplier Name: Guangzhou Shihan Technology Co., Ltd

Supplier Material Name: External antenna

Supplier specifications and models: External antenna

CVTE : 004.032.0052683

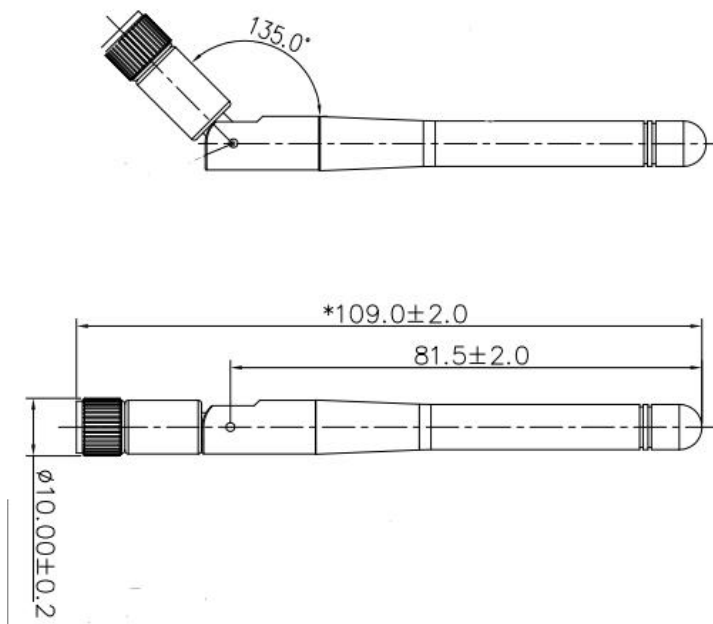
Supplier Recognition Column		
formulate	to examine	approval
Jack	Lucy	



Product physical picture



Product drawings, specifications

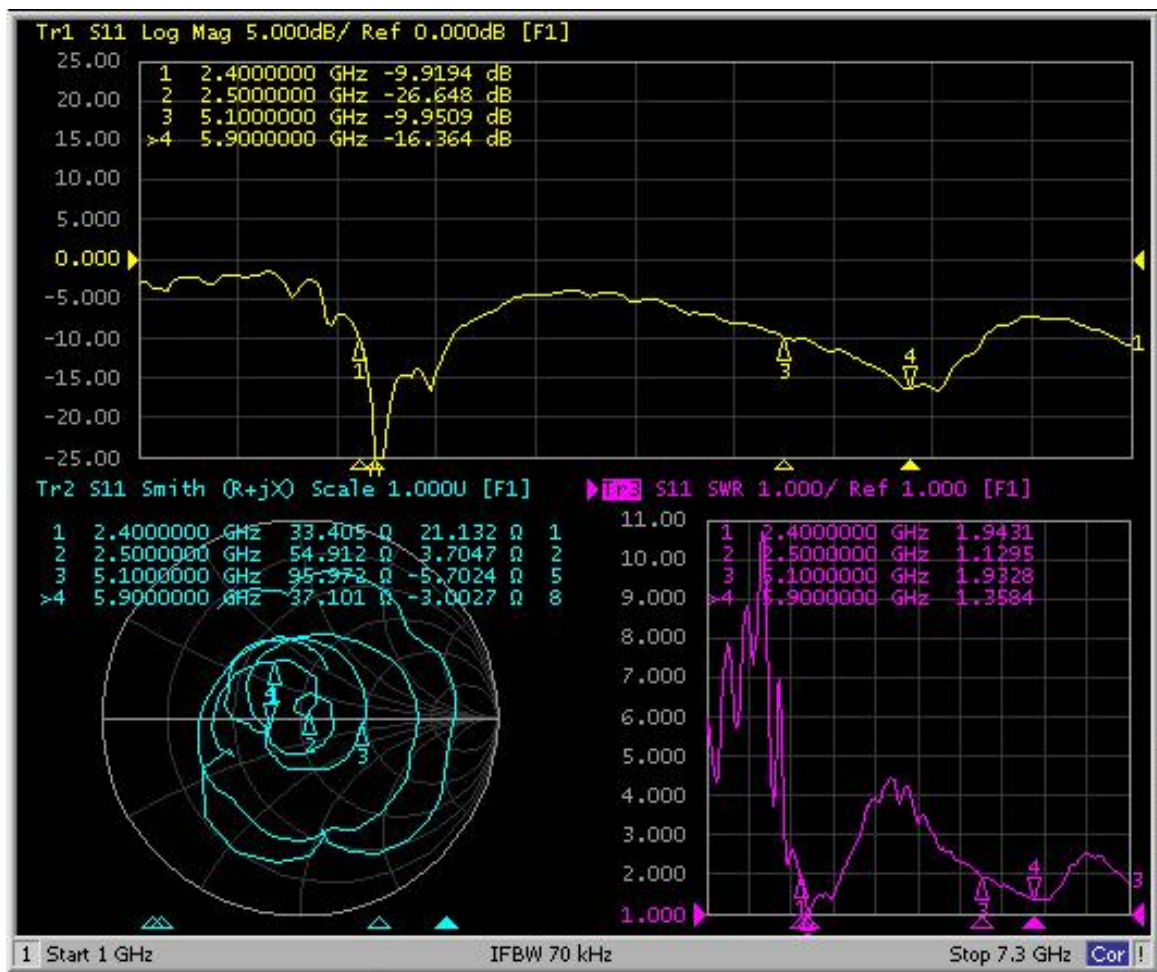


performance parameter

Electrical parameters	
frequency range	2.4-2.5GHz 5.1-5.9GHz
Input impedance	50Ω
Standing Poppy	≤3.0
gain	3dBi
Power capacity	/
On-off test	access
Polarization mode	Linear
Radiation direction	omnidirectional
Connector model	SAM

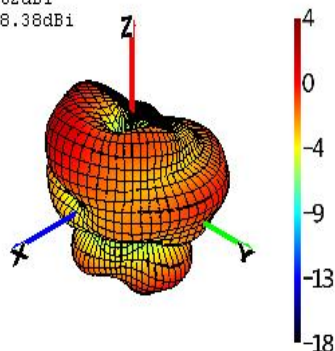
Performance testing (single antenna free space)

S11&SWR

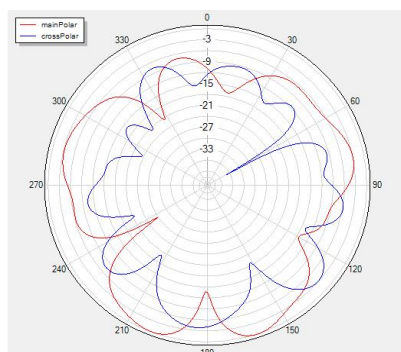


2400 MHz

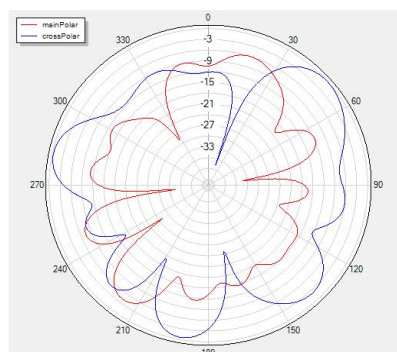
MAX:3.62dBi
MIN:-18.38dBi



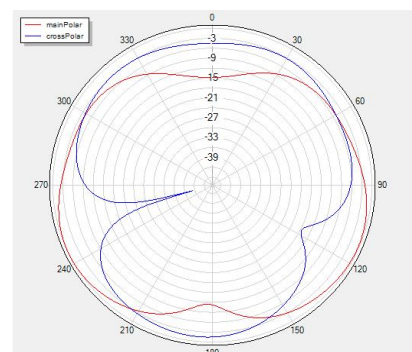
Phi=90 freq=2400MHz



Phi=0 freq=2400MHz

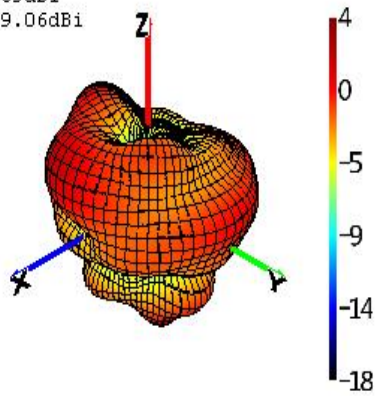


Theta=90 freq=2400MHz

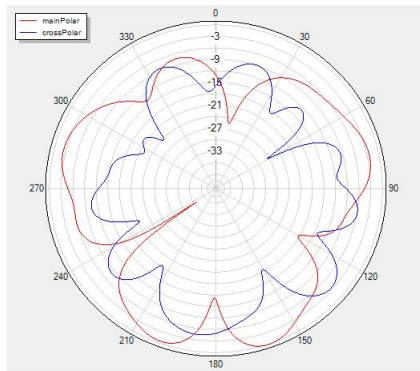


2440 MHz

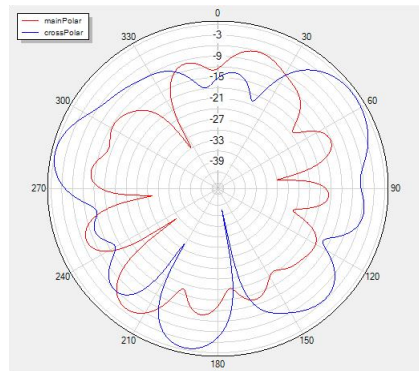
MAX:3.69dBi
MIN:-19.06dBi



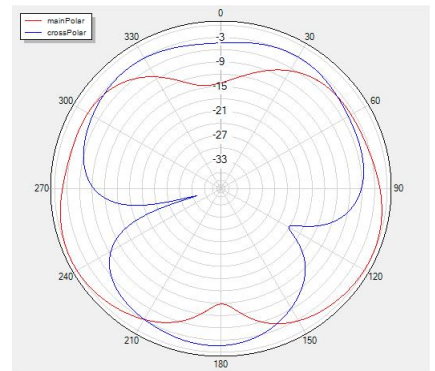
Phi=90 freq=2440MHz



Phi=0 freq=2440MHz

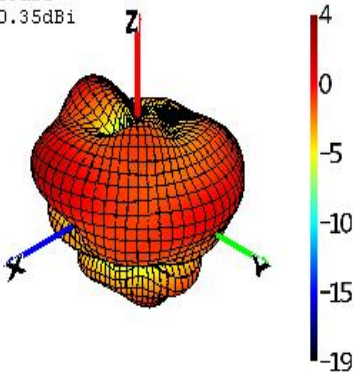


Theta=90 freq=2440MHz

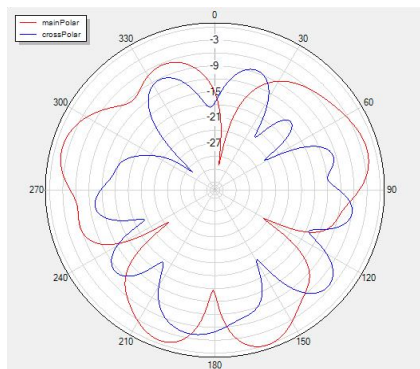


2480 MHz

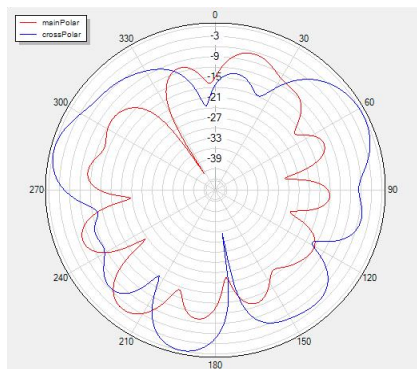
MAX:3.63dBi
MIN:-20.35dBi



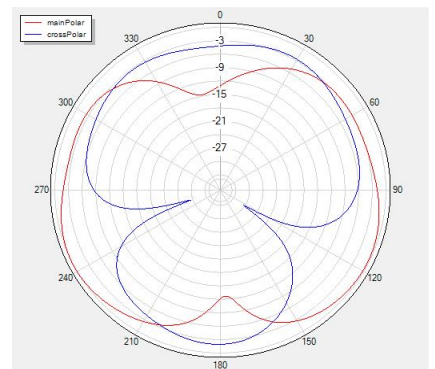
Phi=90 freq=2480MHz



Phi=0 freq=2480MHz

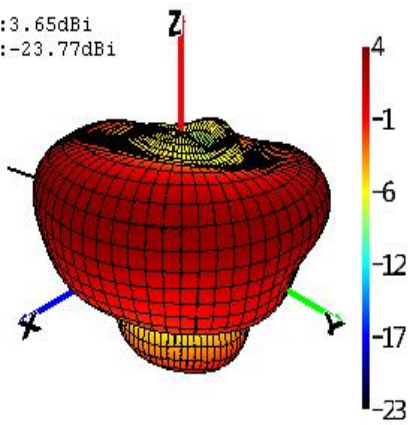


Theta=90 freq=2480MHz

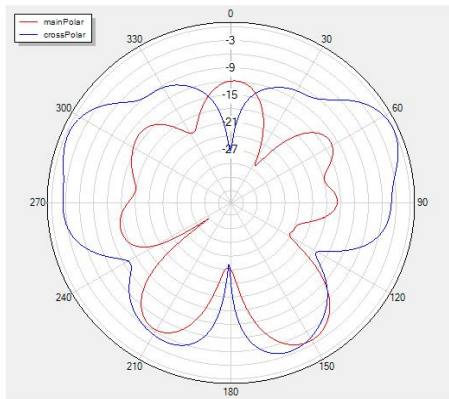


5100 MHz

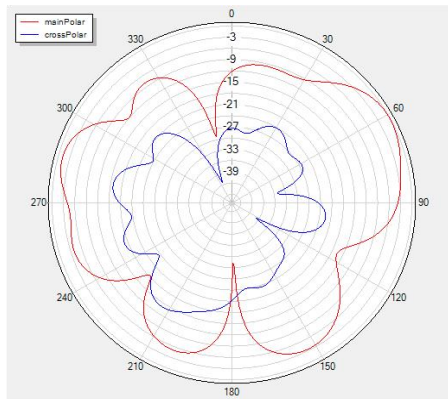
MAX:3.65dBi
MIN:-23.77dBi



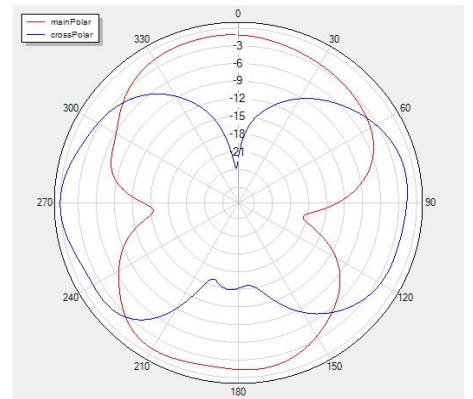
Phi=90 freq=5100MHz



Phi=0 freq=5100MHz

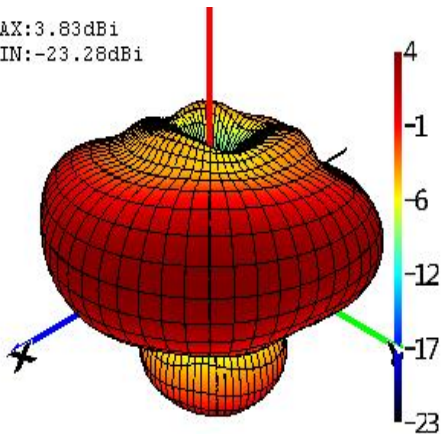


Theta=90 freq=5100MHz

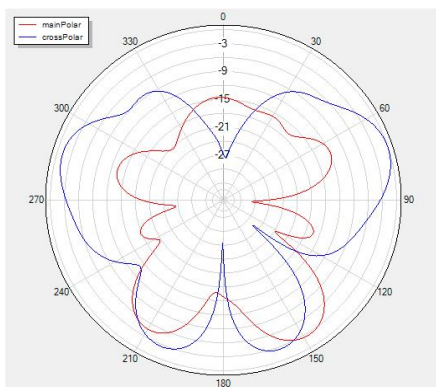


5450 MHz

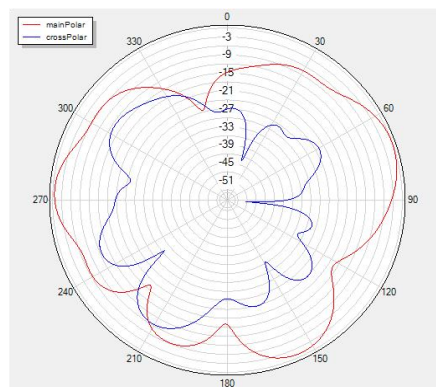
MAX:3.83dBi
MIN:-23.28dBi



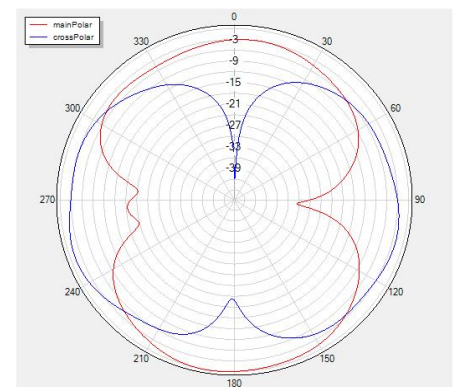
Phi=90 freq=5450MHz



Phi=0 freq=5450MHz

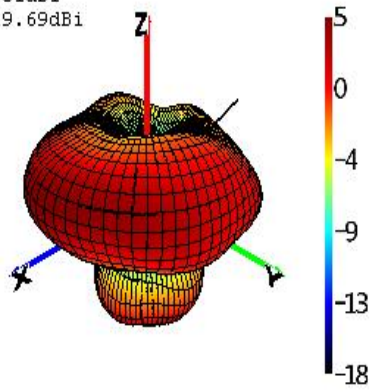


Theta=90 freq=5450MHz

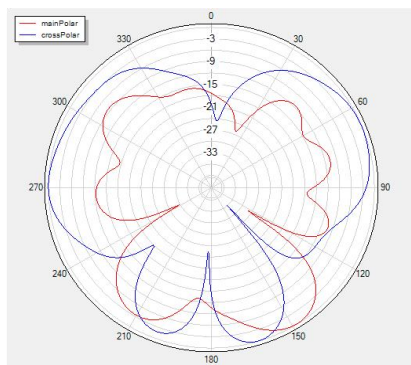


5900 MHz

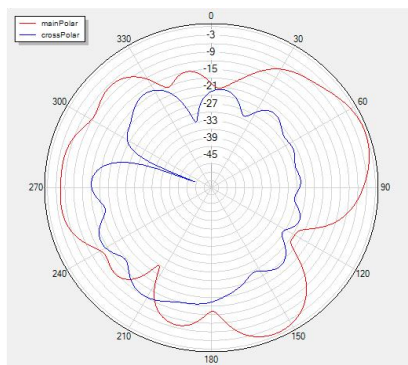
MAX:4.01dBi
MIN:-19.69dBi



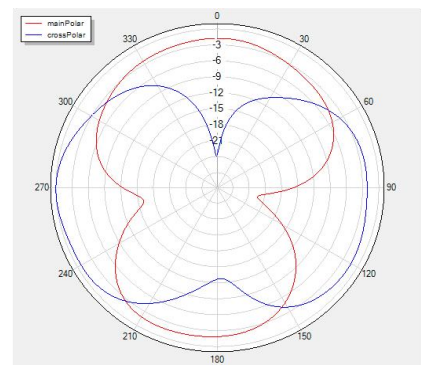
Phi=90 freq=5900MHz



Phi=0 freq=5900MHz



Theta=90 freq=5900MHz



Antenna efficiency (single antenna free space)

frequency (MHz)	gain (dBi)	efficiency (dB)	efficiency (%)
2400	3.62	-2.48	56.53
2410	3.72	-2.41	57.46
2420	3.83	-2.08	61.98
2430	3.79	-1.92	64.2
2440	3.69	-2.17	60.66
2450	3.53	-2.05	62.32
2460	3.43	-1.77	66.45
2470	3.61	-1.73	67.09
2480	3.63	-1.7	67.53
2490	3.53	-1.91	64.42
2500	3.75	-1.7	67.58

frequency (MHz)	gain (dBi)	efficiency (dB)	efficiency (%)
5000	2.97	-1.32	73.79
5050	3.02	-1.38	72.78
5100	3.65	-1.19	76.01
5150	4.36	-0.58	87.47
5200	4.58	-0.75	84.17
5250	4.09	-0.78	83.63
5300	4.6	-1.03	78.83
5350	4.65	-0.99	79.7
5400	4.39	-1.02	79.14
5450	3.83	-0.93	80.69
5500	3.31	-1.32	73.82
5550	3.03	-1.5	70.79
5600	2.95	-1.65	68.37
5650	3.18	-1.4	72.39
5700	3.05	-1.34	73.38
5750	3.45	-1.53	70.28
5800	3.47	-1.88	64.81
5850	3.55	-1.73	67.13
5900	4.01	-1.61	68.97