

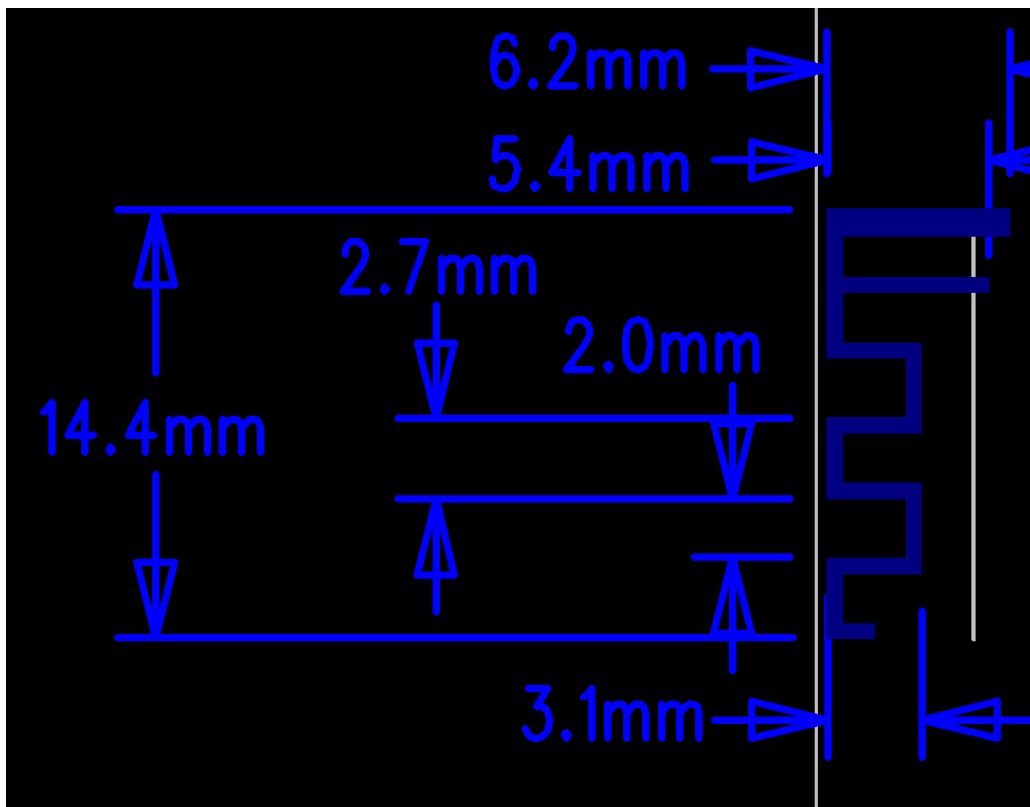
Antenna describe

1. Antenna describe:

Antenna plate	PCB antenna
Make name/model name	ATS-2819S-48PIN
Antenna gain	0dBi
Frequency range	2.4GHZ-2.483GHZ
Connector type	direct
Location of mearement(company name)	SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD
Address	Room 221, Block A, Huafeng Jinyuan Business Building, No. 300, Xixiang Avenue, Xixiang Street, Labor Community, Baoan District, Shenzhen

2. External view drawing:

Picture of antenna

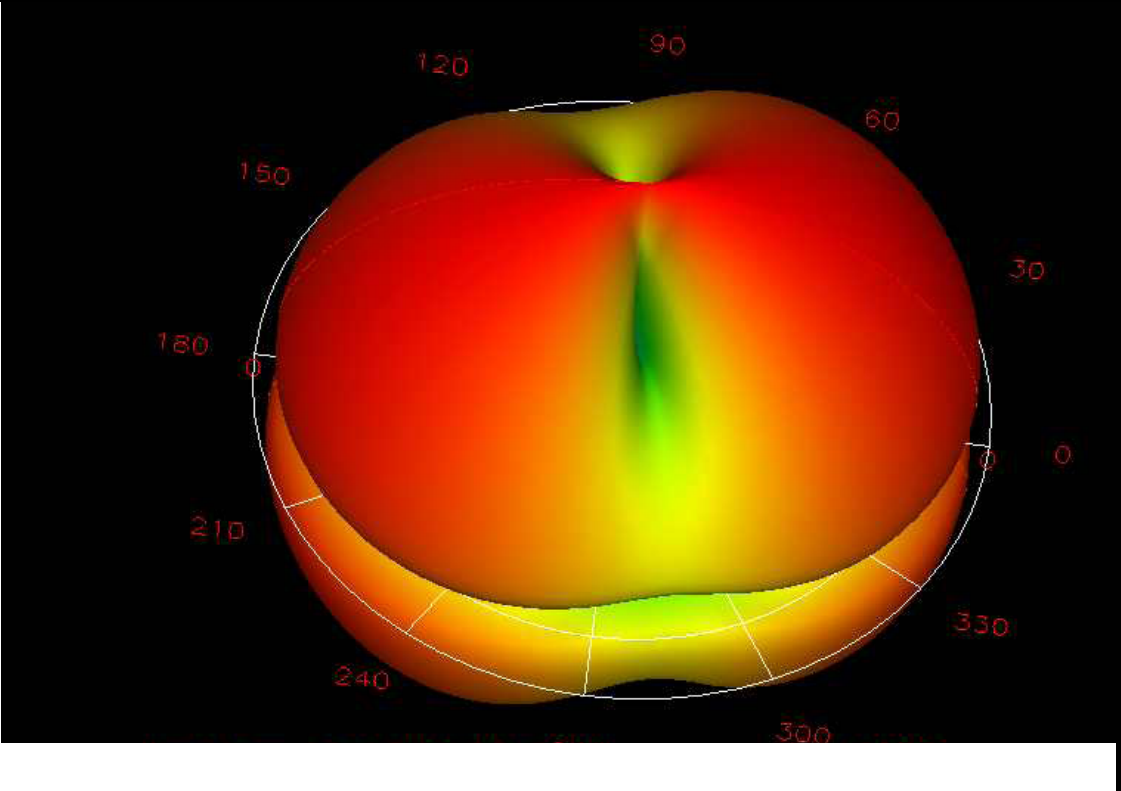


3. Antenna Radiation Pattern

Radiation pattern@2.402GHZ

Total Average Gain:-0.475dbi

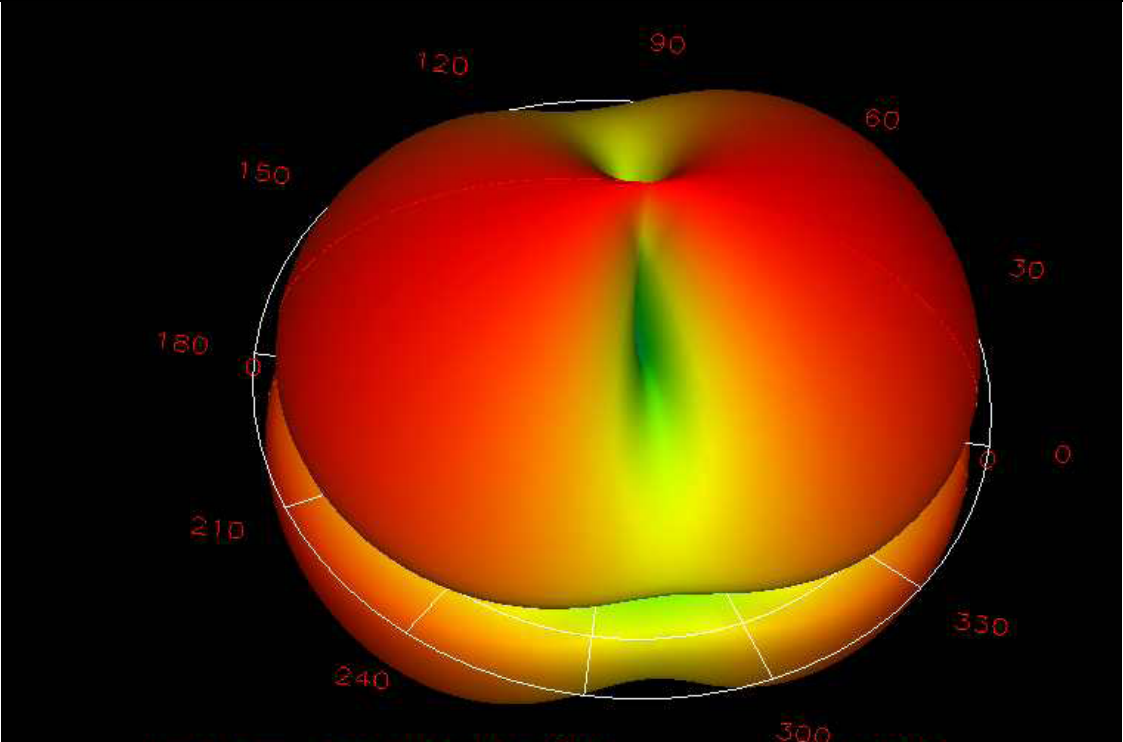
Phi	0	45	90	135	180	235	270	315
Gain	-0.1	-0.3	-0.8	-0.5	-0.2	-0.6	-0.8	-0.5



Radiation pattern@2.441GHZ

Total Average Gain:-0.275dbi

Phi	0	45	90	135	180	235	270	315
Gain	0	-0.1	-0.3	-0.6	-0.1	-0.2	-0.6	-0.4



Radiation pattern@2.480GHZ

Total Average Gain:-0.237dbi

Phi	0	45	90	135	180	235	270	315
Gain	0	-0.1	-0.2	-0.5	0	-0.3	-0.6	-0.2

