Seeed XIAO ESP32C3 Antenna



PRODUCTS

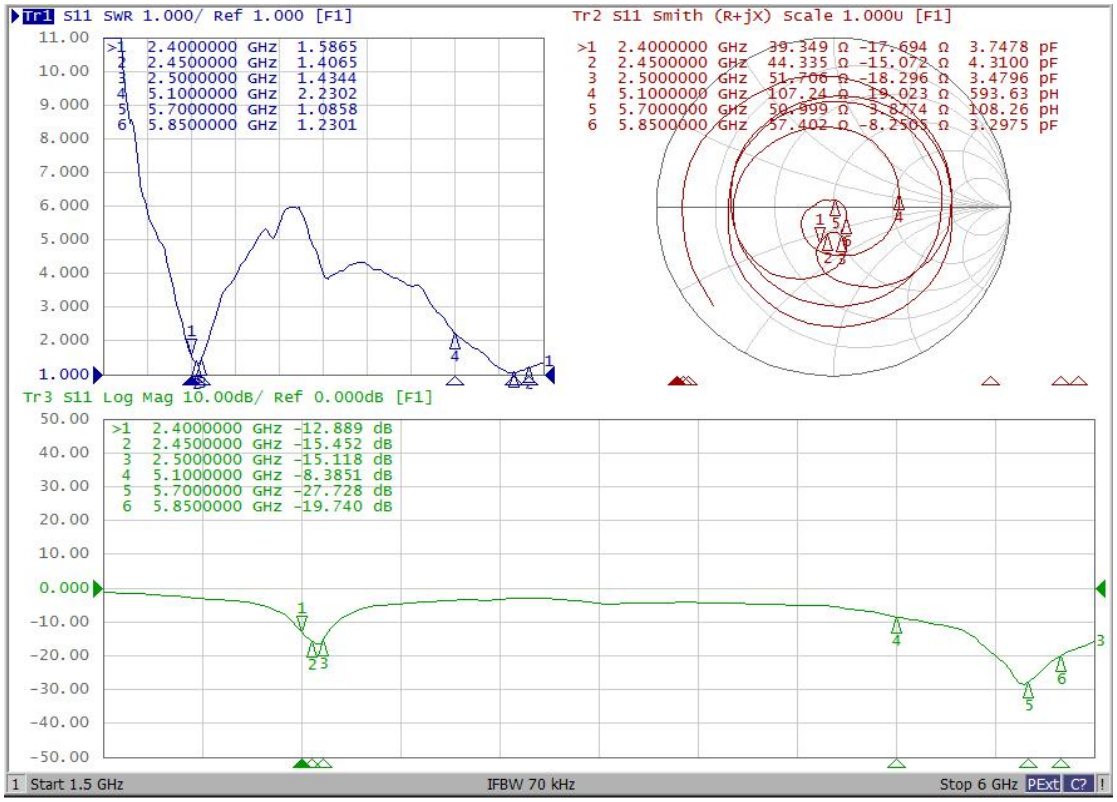
Part No.	Weight	Dimensions (L x WxH)	Cables Dimensions	Connector	Color
M01-0601770R0A		FPC:40.0*20.0*0.2 mm	Φ1.13*80mm	IPEX1	Black

SPECIFICATIONS

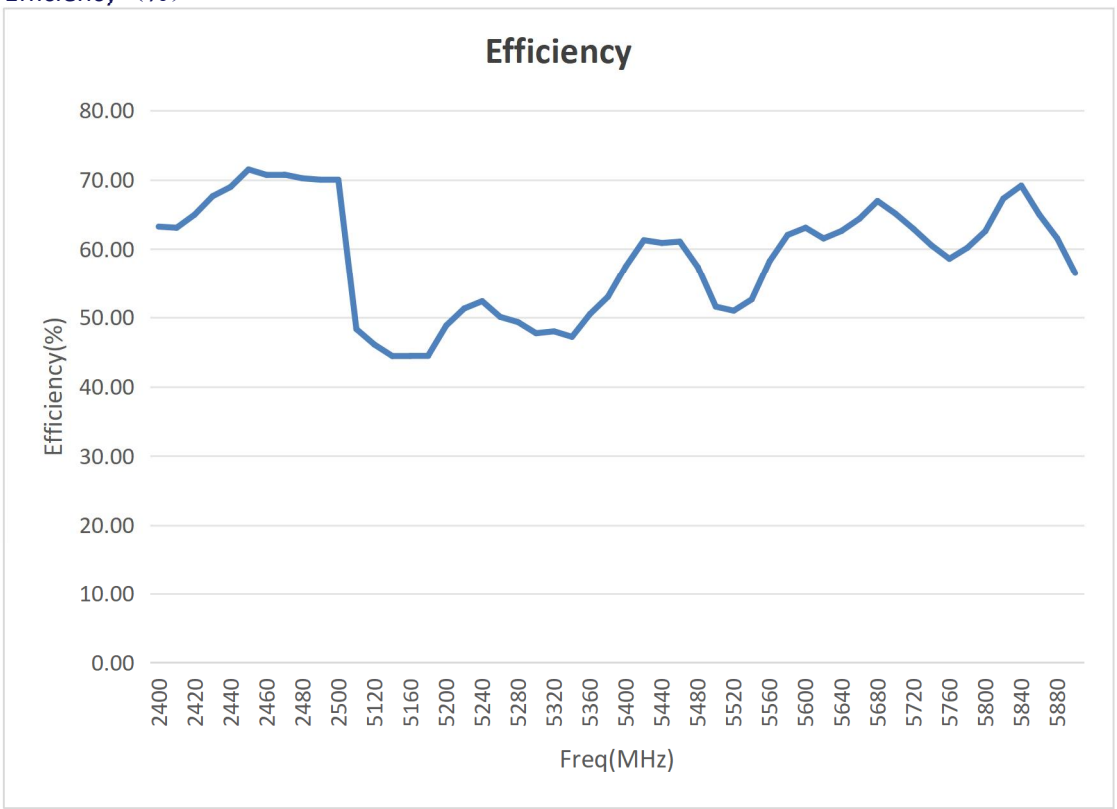
PARAMETER	SPECIFICATION	
Frequency Bands, MHz	2400-2500	5100-5900
VSWR (Max)	3:1	
Peak Gain, dBi (Typ)	Up to2.80 dBi	
Efficiency，%	71.49	
Nominal Impedance	50 Ω	
Max Power (ambient temp of 25°C)	10 Watts	
Polarization	Linear	
Color	Black	
Storage Temperature Range (°C)	-40° C to +85° C	
Operational Temperature Range (°C)	-40° C to +85° C	
Material Substance Compliance	REACH/RoHS Compliant	

ELECTRICAL DATA

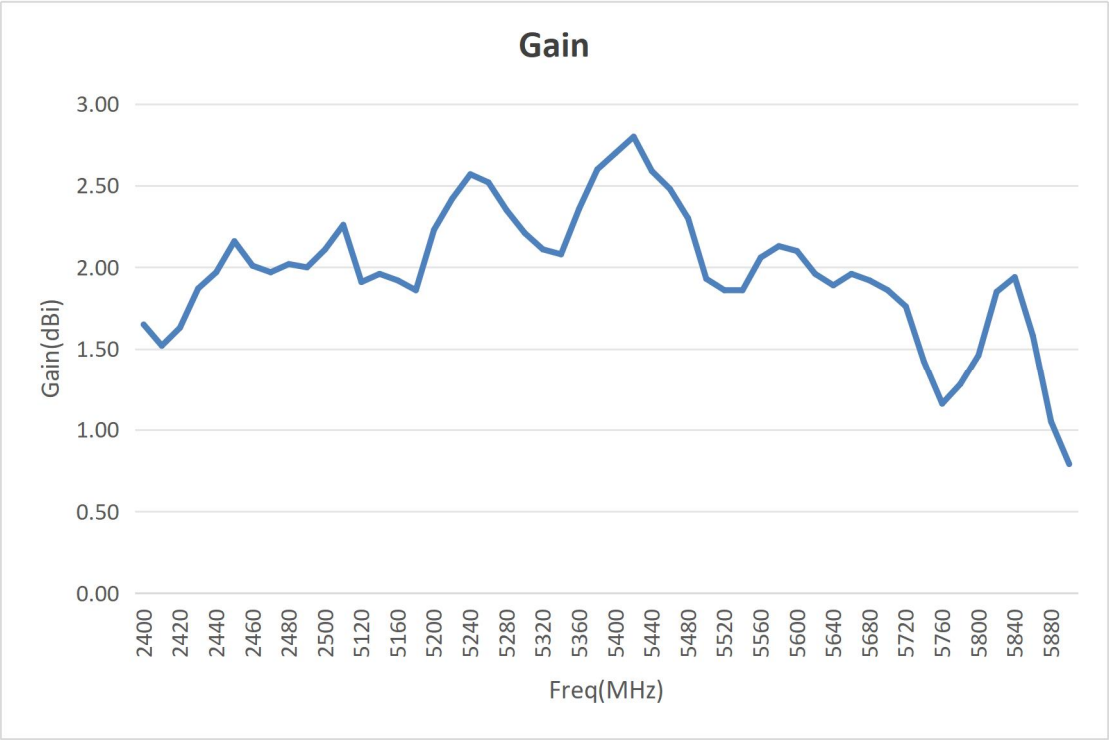
Return Loss



Efficiency（%）



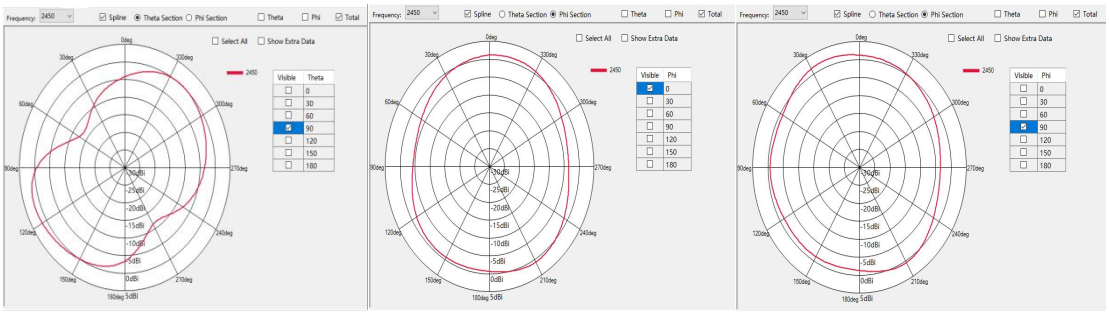
Peak Gain（dBi）



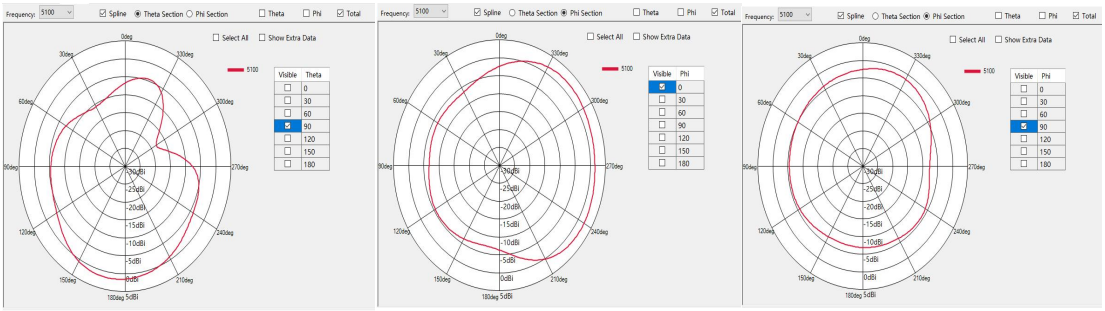
Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	1.65	63.24	5240	2.57	52.35	5600	2.10	63.08
2410	1.52	63.08	5260	2.52	50.08	5620	1.96	61.53
2420	1.63	64.97	5280	2.35	49.32	5640	1.89	62.62
2430	1.87	67.63	5300	2.21	47.72	5660	1.96	64.39
2440	1.97	68.96	5320	2.11	47.99	5680	1.92	66.94
2450	2.16	71.49	5340	2.08	47.20	5700	1.86	65.11
2460	2.01	70.70	5360	2.36	50.49	5720	1.76	62.92
2470	1.97	70.74	5380	2.60	52.99	5740	1.42	60.54
2480	2.02	70.21	5400	2.70	57.49	5760	1.16	58.59
2490	2.00	70.01	5420	2.80	61.28	5780	1.28	60.18
2500	2.11	69.97	5440	2.59	60.88	5800	1.46	62.59
5100	2.26	48.32	5460	2.48	61.07	5820	1.85	67.28
5120	1.91	46.09	5480	2.30	57.37	5840	1.94	69.16
5140	1.96	44.43	5500	1.93	51.56	5860	1.58	64.99
5160	1.92	44.45	5520	1.86	50.97	5880	1.05	61.55
5180	1.86	44.51	5540	1.86	52.61	5900	0.79	56.47
5200	2.23	48.83	5560	2.06	58.24			
5220	2.42	51.29	5580	2.13	62.04			

RADIATION PATTERNS

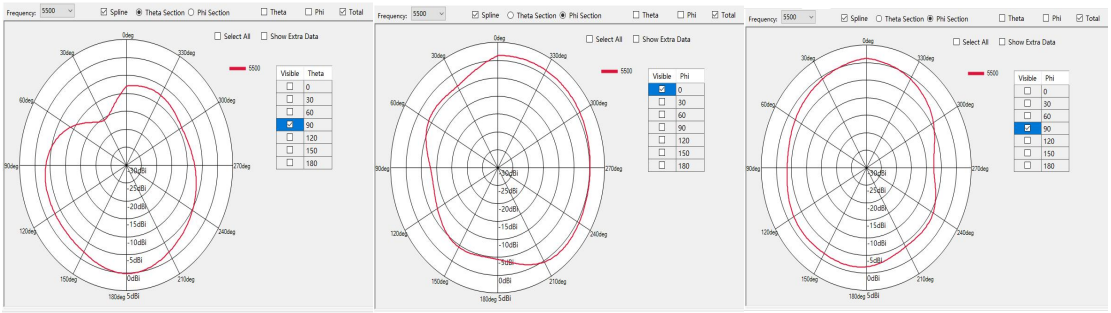
2D Radiation Pattern at 2450MHz Gain=2.16 dBi



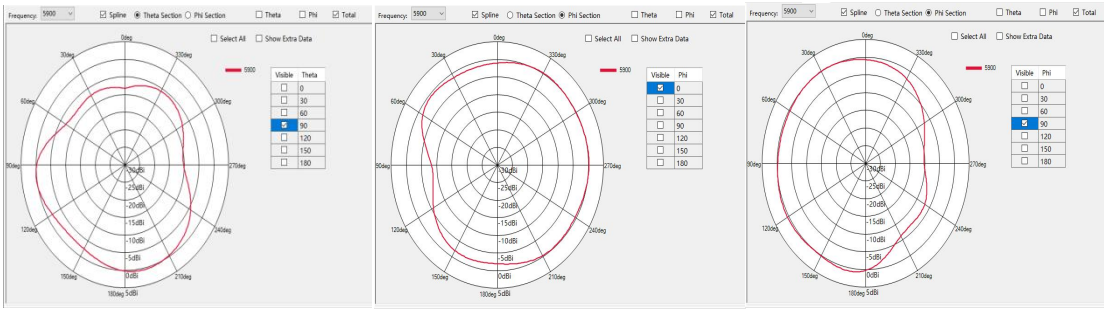
2D Radiation Pattern at 5100MHz Gain=2.26 dBi



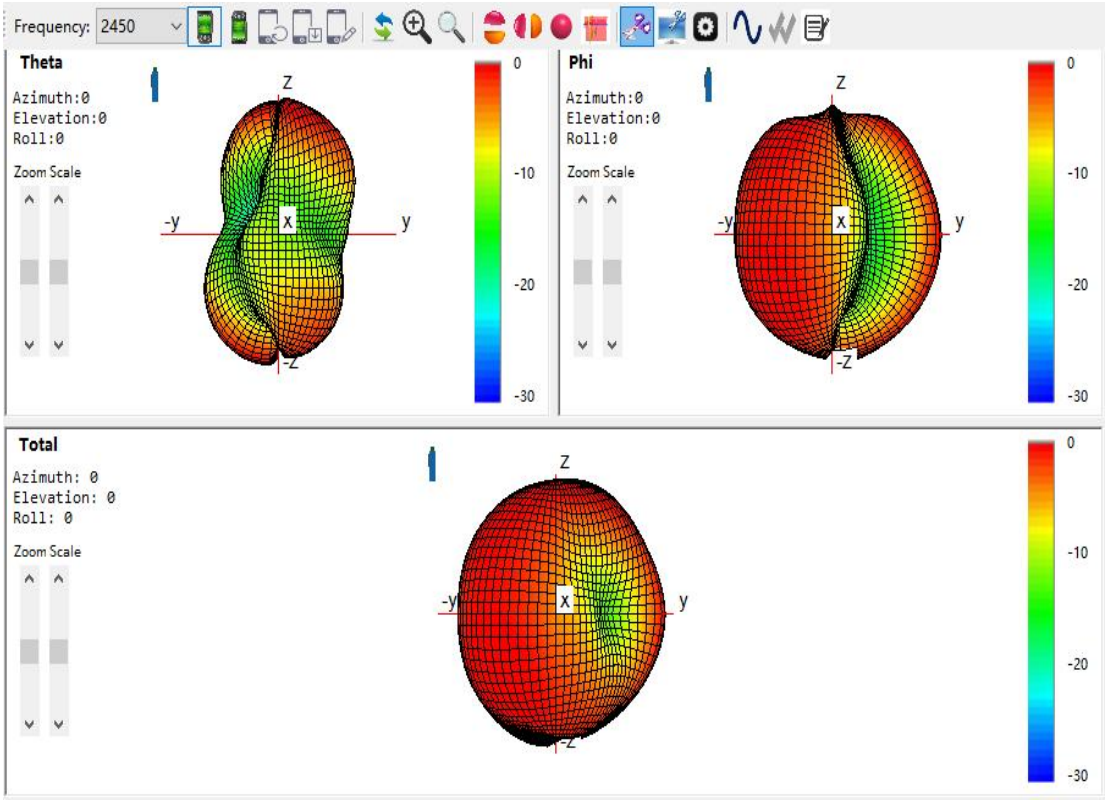
2D Radiation Pattern at 5500MHz Gain=1.93 dBi



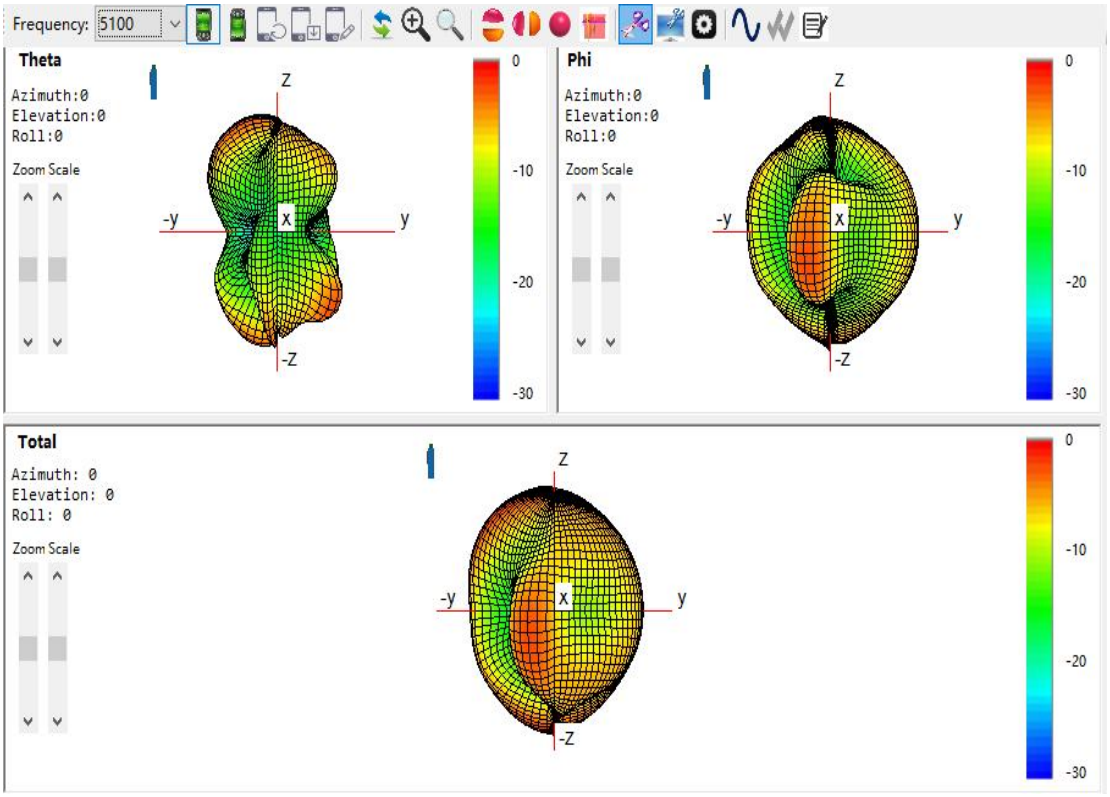
2D Radiation Pattern at 5900MHz Gain=0.79 dBi



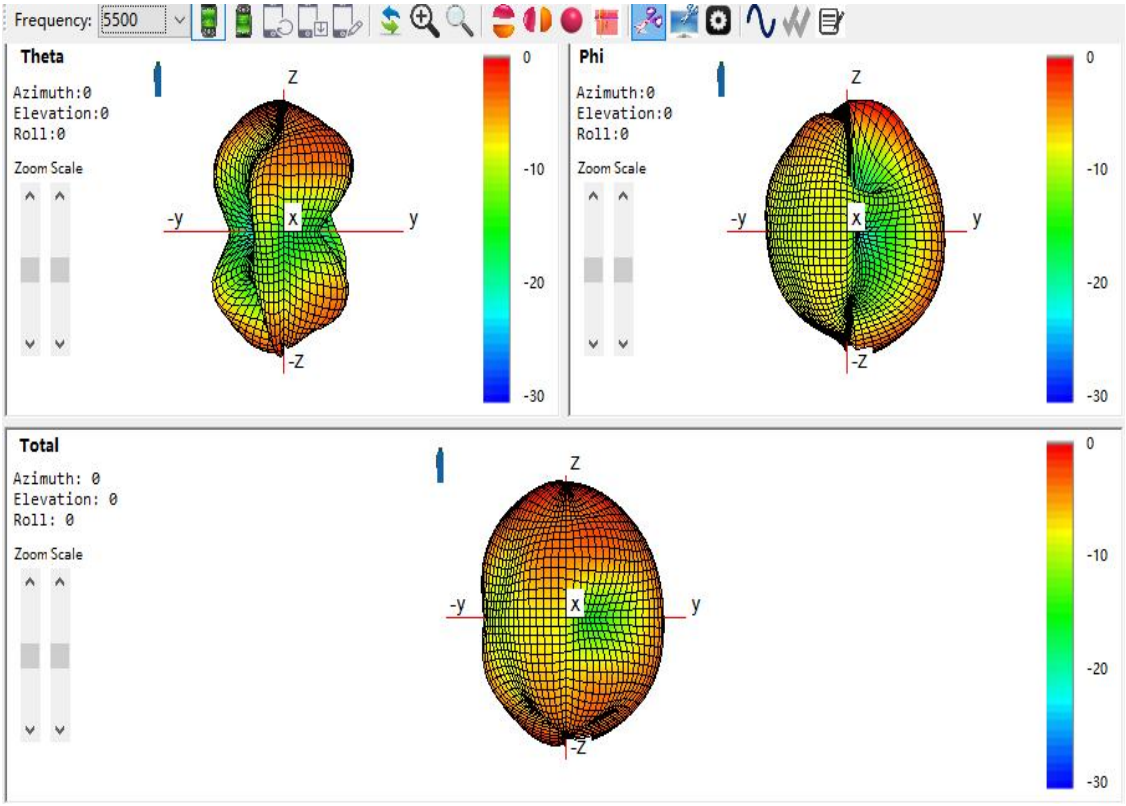
3D Radiation Pattern at 2450MHz Gain=2.16 dBi



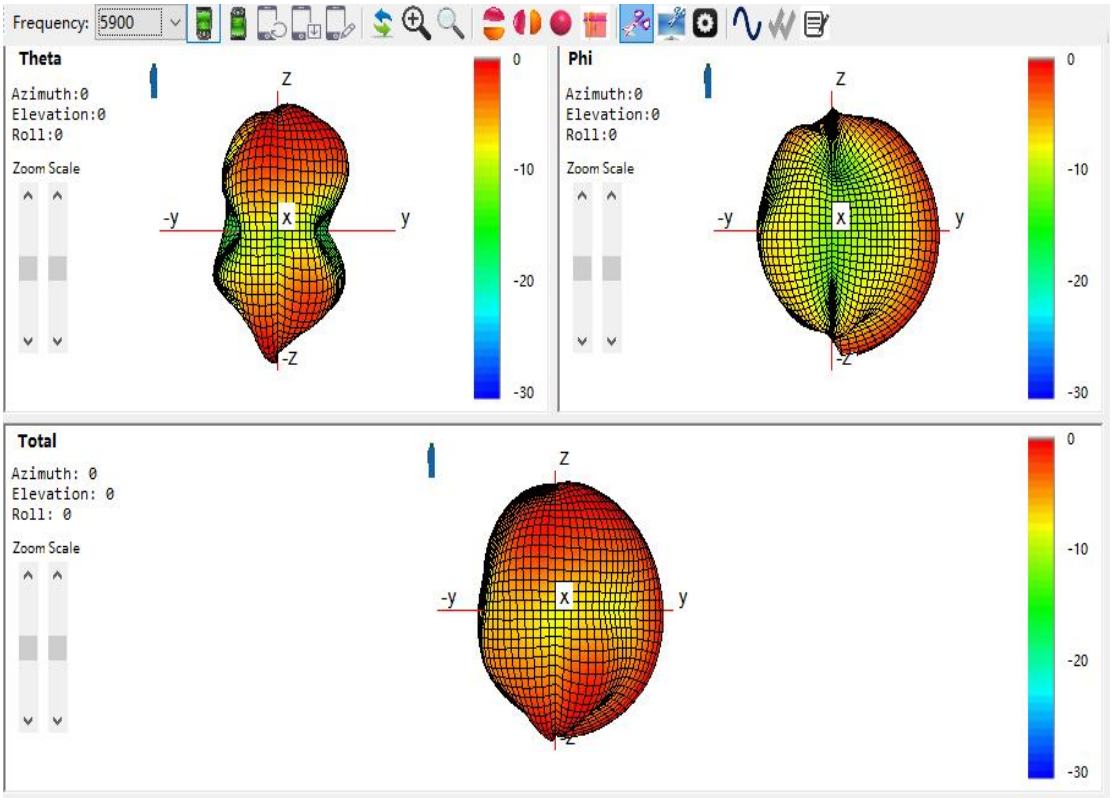
3D Radiation Pattern at 5100MHz Gain=2.26 dBi



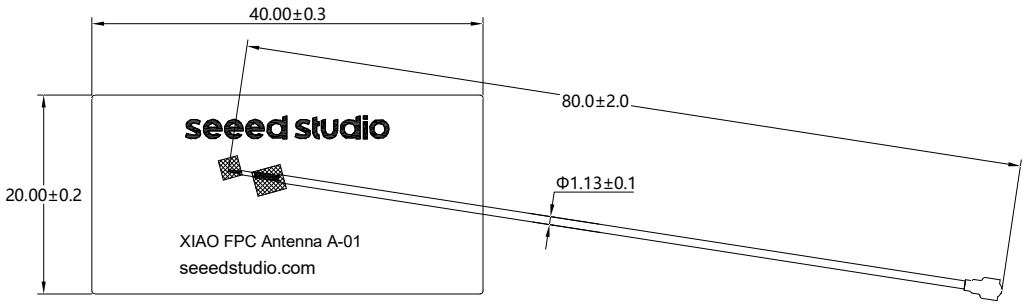
3D Radiation Pattern at 5500MHz Gain=1.93 dBi



3D Radiation Pattern at 5900MHz Gain=0.79 dBi



HOUSING CONFIGURATIONS



IPEX 1