5G Flat Antenna

FEATURES

- Enhanced hinge structure for vibration environs
- Dipole Antenna, Ground Plane Independent
- Wide band Antenna
- 617-2690 MHz Sub 6GHz Bands
- 4.48 dBi 5G NR Peak Gain
- Can be rotated vertically (90°), suitable for compact space multi-antenna installation

The MyAntenna M04-0103330R0A range of antennas are designed to decrease the lifetime cost of M2M and mobile device installations by offering a robust, effective antenna that is easy to install and lasts the lifetime of the installation without the need for maintenance.

The antenna offers ground-plane independent Omni-directional performance across global cellular and LTE bands making it a versatile solution for any number of applications. The efficient element design ensures a high first time connection rate and an ongoing, robust communications link even in problematic coverage areas.

PRODUCTS

Part No.	Weight	Dimensions (L x W x H)	Connector	Color
M04-0103330R0A	32g	195* 38.3* 14.5mm	SMA-Male	Black

SPECIFICATIONS

PARAMETER	SPECIFICATION	
Frequency Bands, MHz	617-960	1710-6000
VSWR (Max)	3.0:1	3.0:1
Peak Gain, dBi (Typ)	Up to 4.48	
Peak Efficiency(%)	Up to 86.79%	
Nominal Impedance	50 Ω	
Max Power (ambient temp of 25°C)	10 Watts	
Azimuth Beam Width (deg)	Omnidirectional	
Polarization	Linear, Omnidirectional	
Radome	ABS, Black	
Storage Temperature Range (°C)	-40° C to +85° C	
Operational Temperature Range (°C)	-40° C to +85° C	
Material Substance Compliance	RoHS Compliant	

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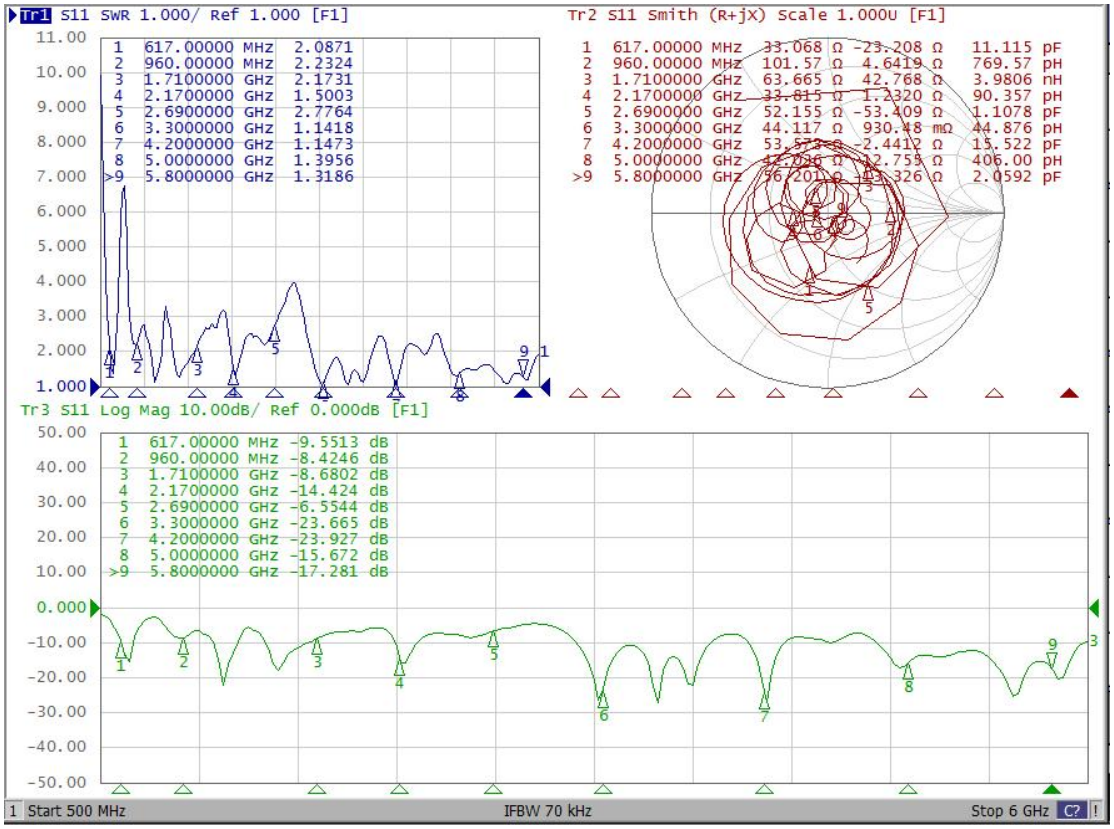
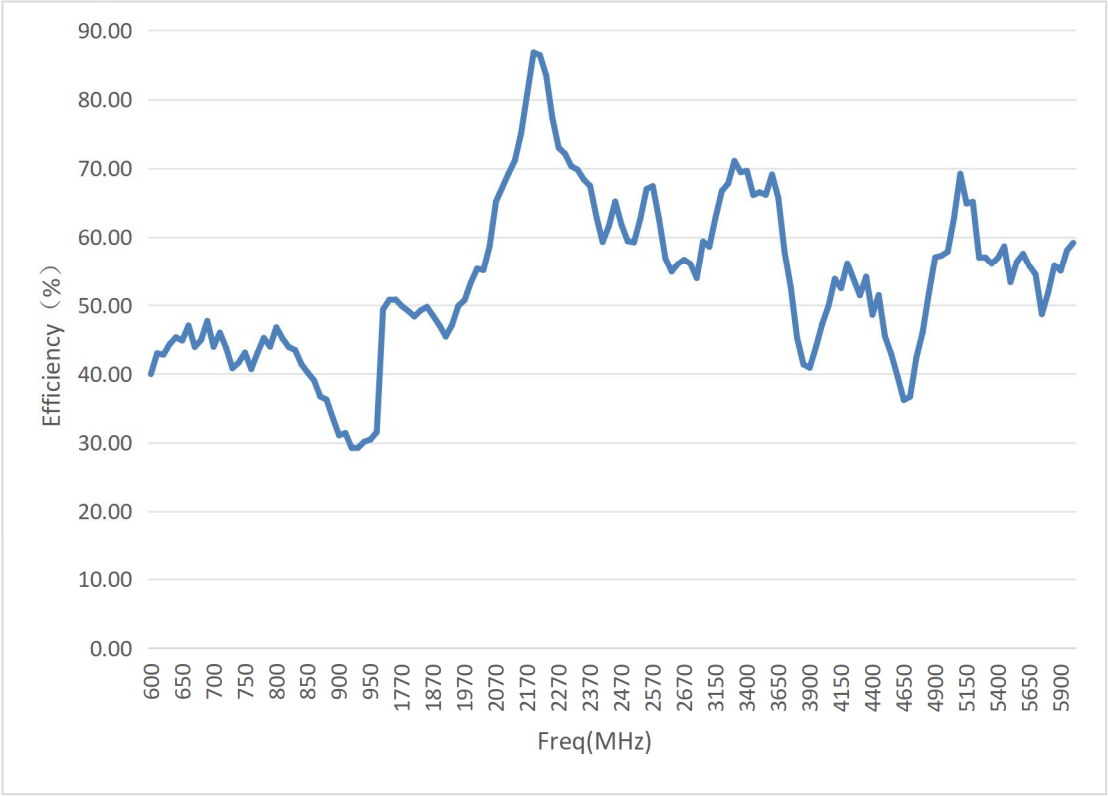
ELECTRICAL DATA

Return Loss



Efficiency（%）



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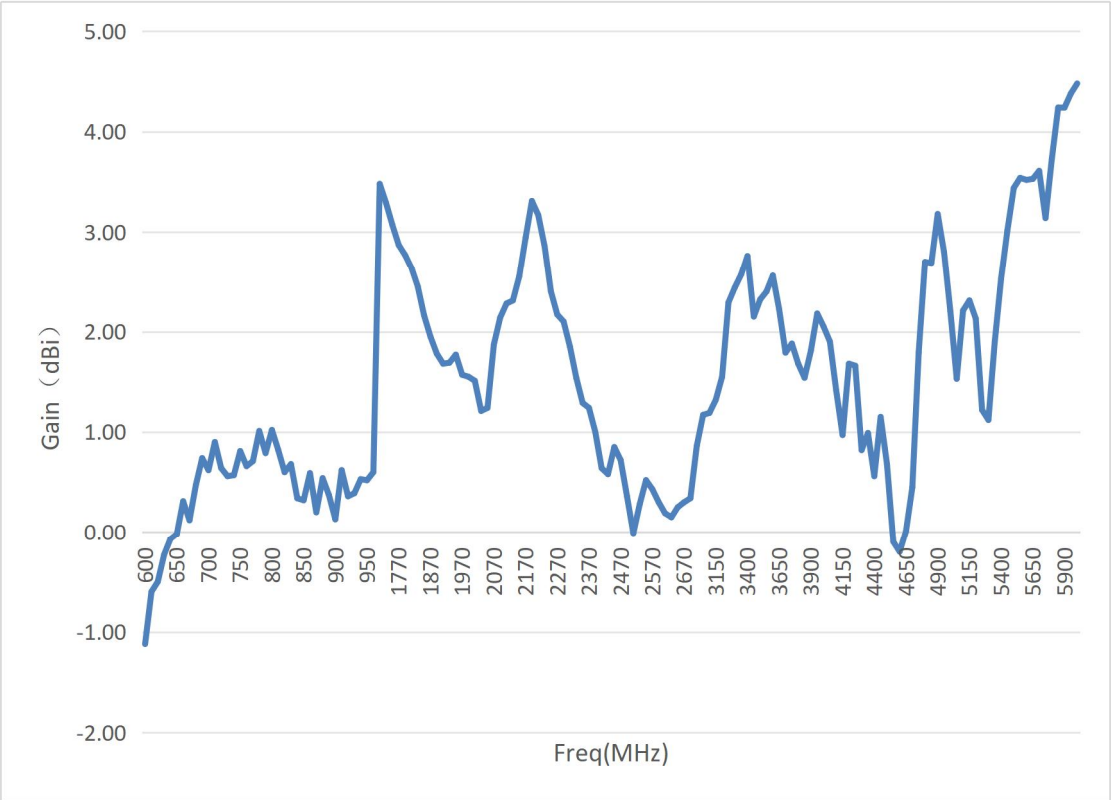
Peak Gain（dBi）



Efficiency and Gain Data list

Freq (MHz)	Gain（dBi）	Efficiency（%）	Freq (MHz)	Gain（dBi）	Efficiency（%）	Freq (MHz)	Gain（dBi）	Efficiency（%）
600	-1.12	39.98	1970	1.57	50.73	3650	2.22	65.71
610	-0.60	42.99	1990	1.55	53.32	3700	1.79	57.84
620	-0.50	42.80	2010	1.51	55.34	3750	1.88	52.52
630	-0.23	44.33	2030	1.21	55.14	3800	1.68	45.20
640	-0.07	45.32	2050	1.24	58.78	3850	1.54	41.39
650	-0.02	44.86	2070	1.87	65.17	3900	1.81	40.90
660	0.31	47.04	2090	2.14	67.21	3950	2.18	43.91
670	0.12	43.92	2110	2.28	69.24	4000	2.05	47.28
680	0.47	44.93	2130	2.31	71.11	4050	1.90	49.90
690	0.74	47.70	2150	2.55	75.04	4100	1.41	53.84
700	0.62	43.96	2170	2.94	80.92	4150	0.97	52.48
710	0.90	46.00	2190	3.31	86.79	4200	1.68	56.15
720	0.64	43.77	2210	3.17	86.40	4250	1.66	53.78
730	0.56	40.83	2230	2.86	83.50	4300	0.82	51.45
740	0.57	41.64	2250	2.40	77.25	4350	0.99	54.15
750	0.81	43.10	2270	2.17	72.98	4400	0.56	48.61

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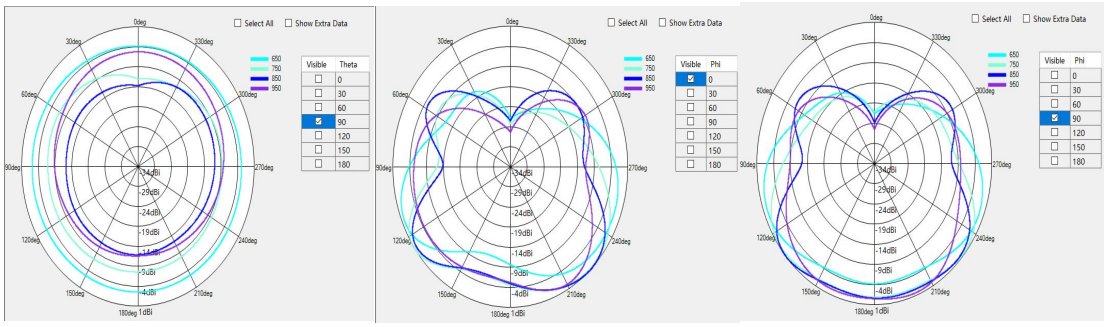
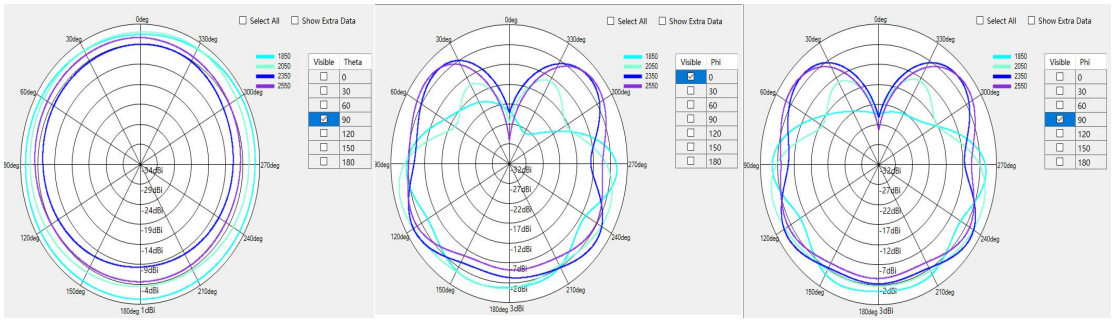
760	0.66	40.71	2290	2.10	72.12	4450	1.15	51.47
770	0.71	43.07	2310	1.85	70.31	4500	0.68	45.44
780	1.01	45.23	2330	1.54	69.81	4550	-0.10	42.88
790	0.79	43.97	2350	1.29	68.37	4600	-0.20	39.62
800	1.02	46.78	2370	1.24	67.46	4650	0.01	36.20
810	0.82	45.13	2390	1.00	63.01	4700	0.45	36.69
820	0.60	43.89	2410	0.64	59.32	4750	1.79	42.37
830	0.68	43.46	2430	0.58	61.65	4800	2.70	46.07
840	0.34	41.41	2450	0.85	65.18	4850	2.69	51.78
850	0.32	40.18	2470	0.72	61.85	4900	3.18	57.06
860	0.59	39.08	2490	0.36	59.42	4950	2.80	57.31
870	0.20	36.70	2510	-0.01	59.26	5000	2.20	57.90
880	0.54	36.26	2530	0.28	62.67	5050	1.53	62.82
890	0.37	33.57	2550	0.52	67.00	5100	2.21	69.20
900	0.13	31.07	2570	0.43	67.41	5150	2.31	64.90
910	0.62	31.40	2590	0.30	62.59	5200	2.13	65.14
920	0.36	29.23	2610	0.19	56.92	5250	1.22	57.03
930	0.39	29.25	2630	0.15	54.92	5300	1.12	57.06
940	0.53	30.13	2650	0.25	56.08	5350	1.90	56.10
950	0.52	30.45	2670	0.30	56.69	5400	2.53	56.99
960	0.60	31.54	2690	0.34	56.07	5450	3.02	58.66
1710	3.48	49.37	3000	0.86	53.96	5500	3.44	53.37
1730	3.29	50.79	3050	1.17	59.37	5550	3.54	56.38
1750	3.07	50.84	3100	1.19	58.62	5600	3.52	57.57
1770	2.87	49.87	3150	1.32	62.89	5650	3.53	55.76
1790	2.77	49.17	3200	1.55	66.72	5700	3.61	54.48
1810	2.64	48.36	3250	2.29	67.79	5750	3.14	48.70
1830	2.45	49.24	3300	2.44	71.07	5800	3.73	51.83
1850	2.16	49.75	3350	2.57	69.44	5850	4.24	55.88
1870	1.95	48.43	3400	2.76	69.63	5900	4.24	55.05
1890	1.78	47.06	3450	2.15	66.14	5950	4.38	58.08
1910	1.68	45.44	3500	2.32	66.52	6000	4.48	59.18
1930	1.69	47.13	3550	2.40	66.17			
1950	1.77	49.91	3600	2.56	69.10			

RADIATION PATTERNS

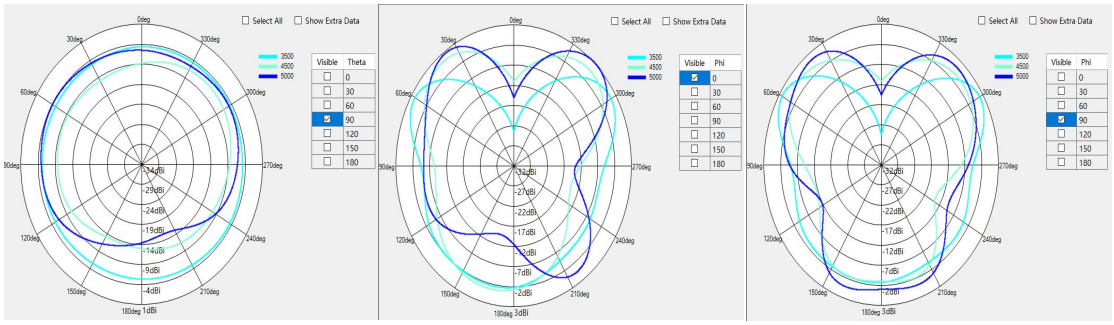
2D Radiation Pattern at 650MHz Gain=-0.02 dBi/750MHz Gain=0.81 dBi/850MHz Gain=0.32 dBi/950MHz Gain=0.52 dBi



2D Radiation Pattern at 1850MHz Gain=2.16 dBi/2050MHz Gain=1.24 dBi/2350MHz Gain=1.29 dBi/2550MHz Gain=0.52 dBi



2D Radiation Pattern at 3500MHz Gain=2.32 dBi/4500MHz Gain=0.68 dBi/5000MHz Gain=2.2 dBi



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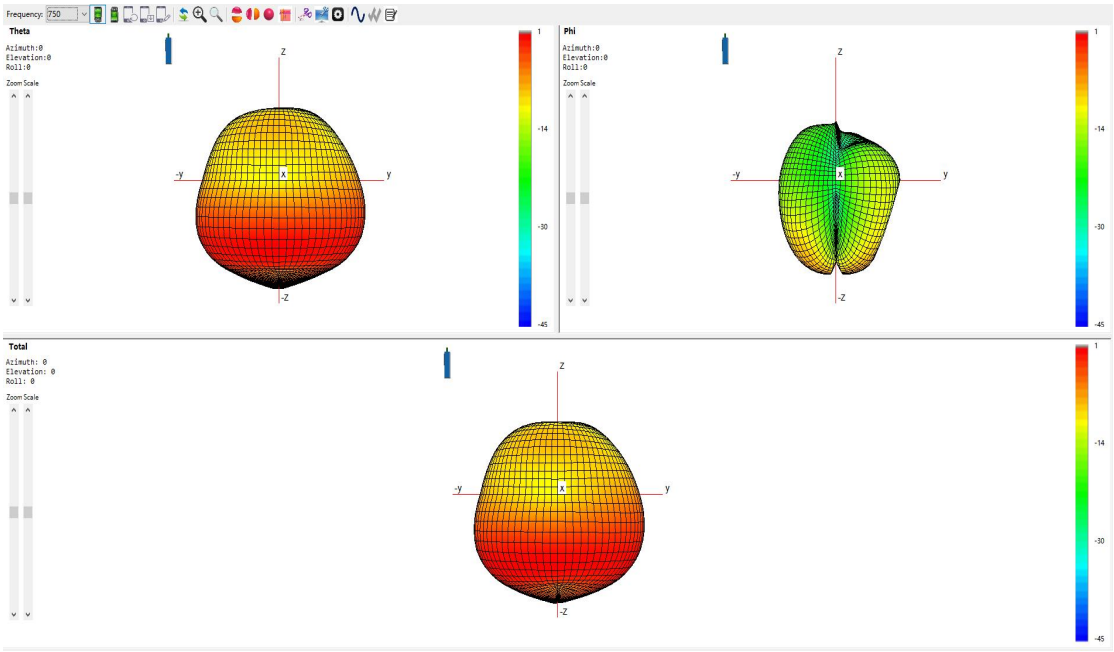
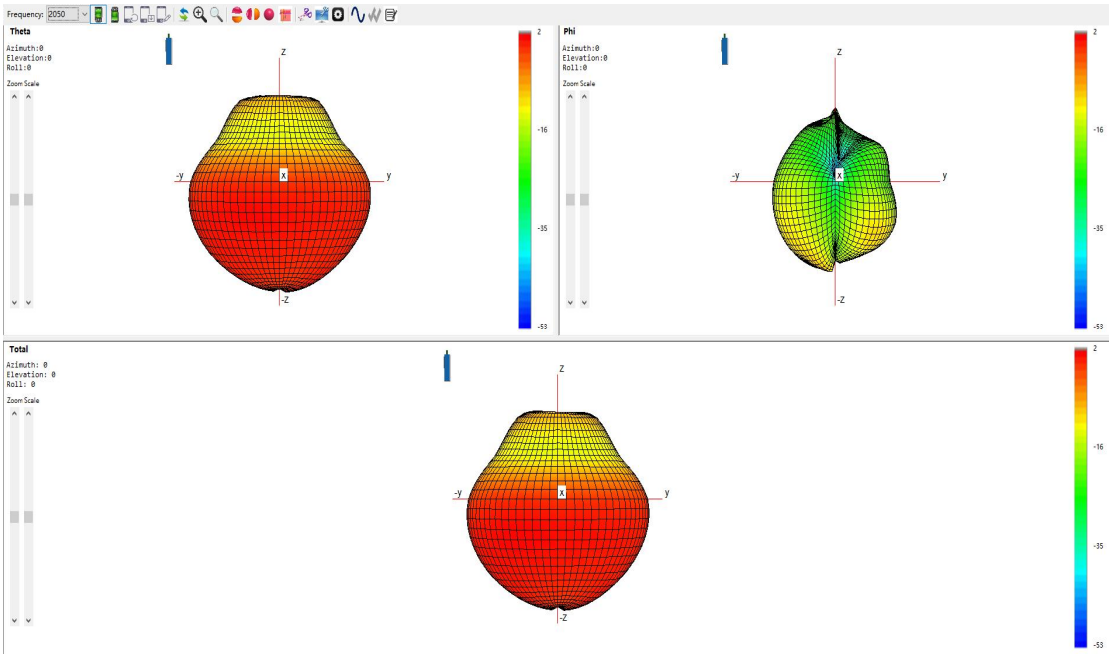
3D Radiation Pattern at 750MHz Gain=0.81 dBi



3D Radiation Pattern at 2050MHz Gain=1.24 dBi



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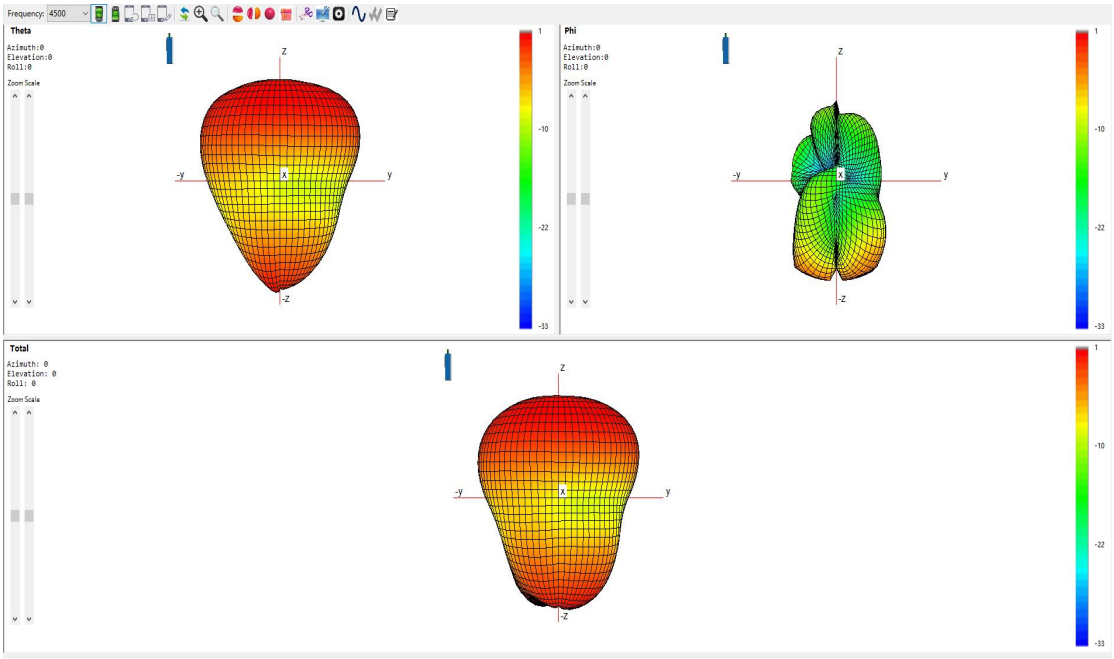
3D Radiation Pattern at 4500MHz Gain=0.68 dBi



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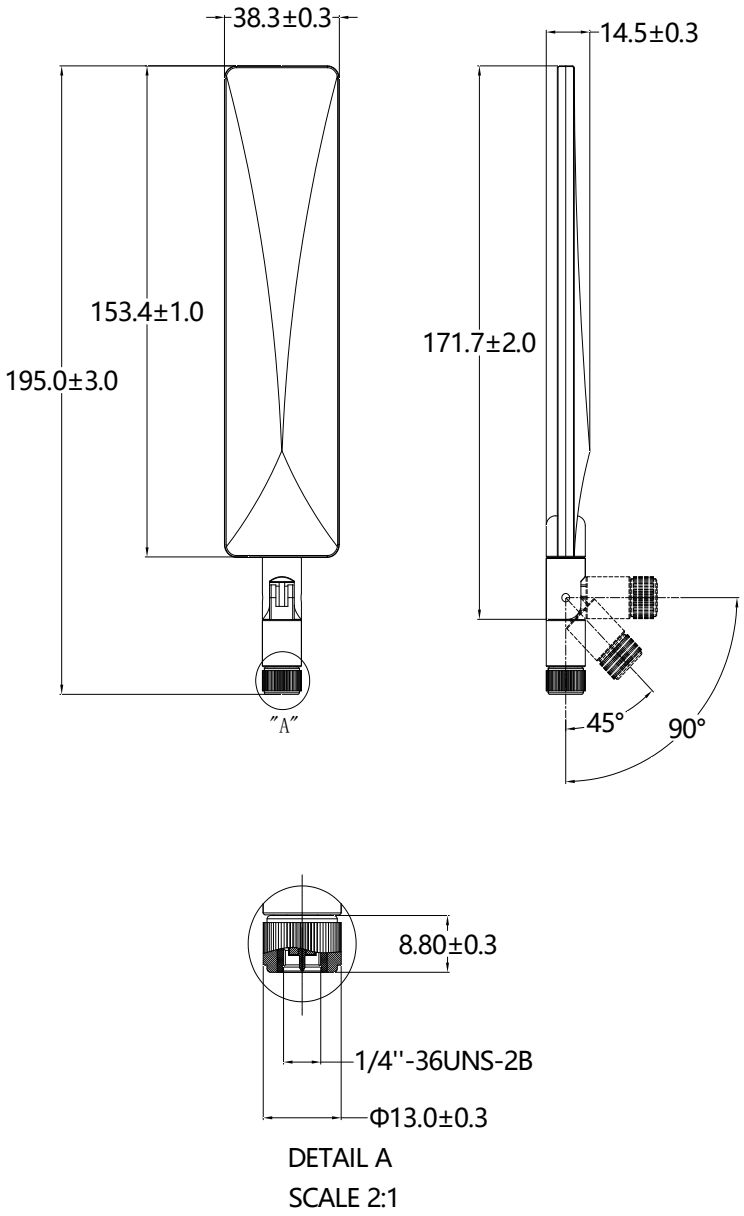
HOUSING CONFIGURATIONS



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