

APPROVAL SPECIFICATION

Product : Internal Antenna

Model Name : MY25.5 (LTE / Sub-6, GPS Antenna)

Date : 2023. 09. 04.



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1. Manufacturer

- LS Mtron Co. Ltd.
- LS Mtron Part Number: LS01-I-22001-A1

2. Model Name

- Basic Model: MY25.5
- Variation Model: -

3. Antenna Type

- PIFA : Planar Inverted F Antenna

4. Electric Performance Data

4.1 Specification Sheet

4.1.1 LTE / Sub-6 Antenna (LB+MB+HB+Sub-6)

Frequency [MHz]	699	716	729	734	746	748	758	791	803	814
Peak Gain(dBi)	-0.03	0.18	0.18	0.63	1.85	1.91	2.46	2.55	2.65	2.69
Average Gain(dBi)	-5.79	-5.51	-5.47	-5.25	-4.21	-4.14	-3.50	-2.67	-2.85	-3.53
Frequency [MHz]	824	832	849	859	869	880	894	915	925	960
Peak Gain(dBi)	2.44	1.85	1.63	1.68	1.52	1.32	0.85	0.02	-0.06	-0.54
Average Gain(dBi)	-4.13	-4.94	-5.02	-4.83	-4.84	-5.00	-5.44	-5.47	-5.51	-5.70
Frequency [MHz]	1710	1755	1785	1805	1850	1880	1910	1920	1930	1980
Peak Gain(dBi)	0.26	0.50	1.88	2.71	1.78	1.51	1.32	1.25	1.19	1.90
Average Gain(dBi)	-4.37	-4.15	-2.89	-2.09	-2.94	-3.37	-3.60	-3.75	-3.79	-3.16
Frequency [MHz]	1990	2110	2155	2170	2300	2400	2500	2570	2620	2690
Peak Gain(dBi)	1.78	1.72	1.25	1.27	1.30	-0.19	1.36	0.17	-0.12	0.45
Average Gain(dBi)	-3.20	-2.91	-3.37	-3.23	-2.93	-4.01	-3.24	-4.55	-4.76	-4.25
Frequency [MHz]	3300	3500	3700	3900	4100	4200				
Peak Gain(dBi)	2.75	2.70	2.70	2.15	0.37	0.98				
Average Gain(dBi)	-3.60	-3.42	-4.35	-3.76	-4.35	-4.92				

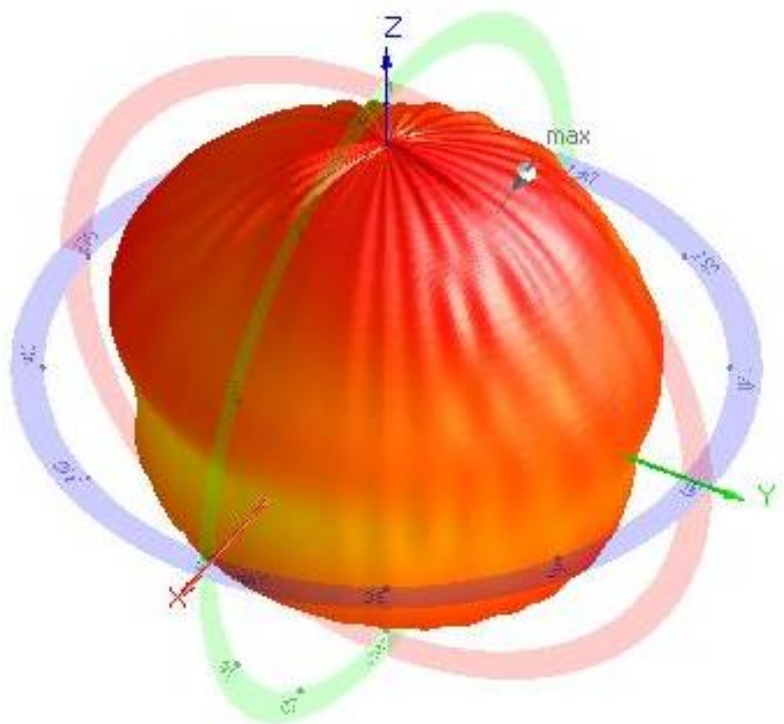
4.1.2 GPS Antenna (GPS)

Frequency [MHz]	1575
Peak Gain(dBi)	1.21
Average Gain(dBi)	-2.22

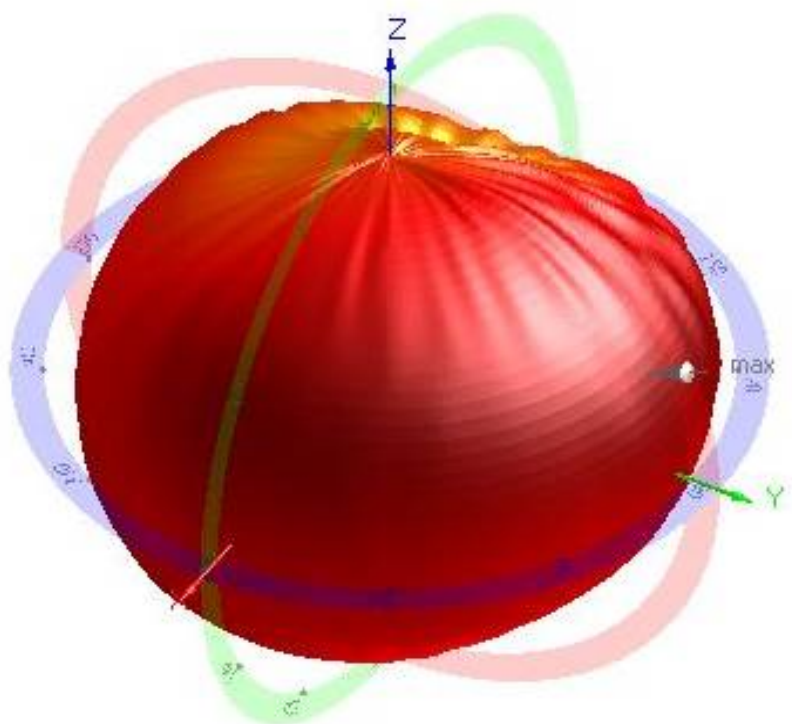
4.2 3D Radiation Pattern

4.2.1 LTE / Sub-6 Antenna (LB+MB+HB+Sub-6)

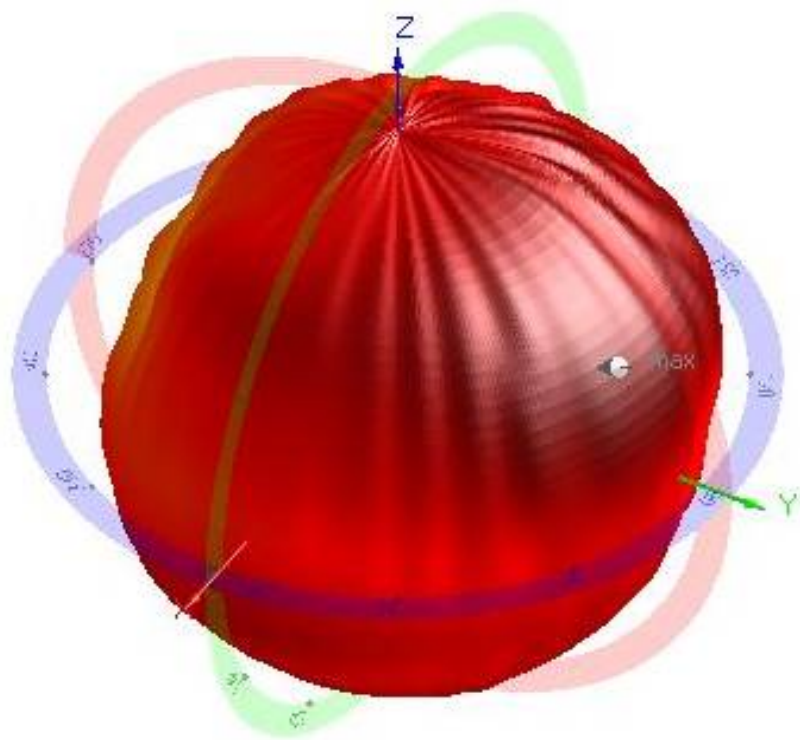
4.2.1.1 LTE LB (B5/12/17)



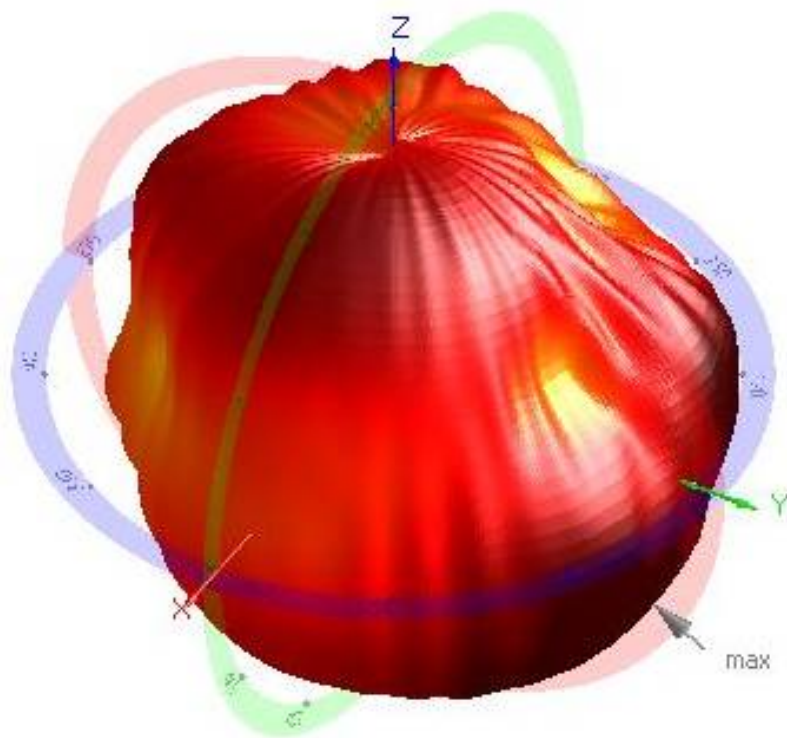
4.2.1.2 LTE MB (B2/4/66)



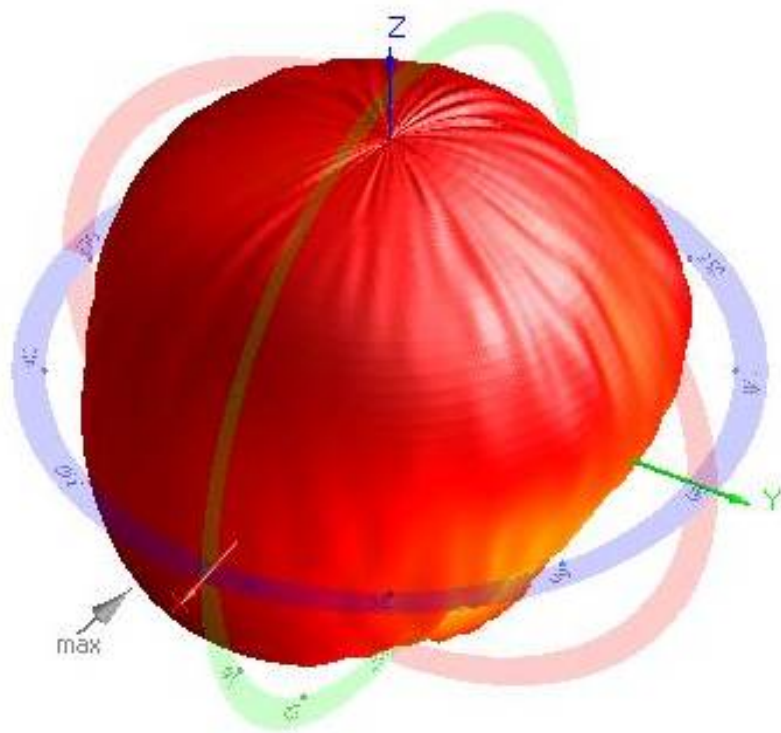
4.2.1.3 LTE HB (B7)



4.2.1.4 Sub-6 (n77)



4.2.2 GPS Antenna



5. External Drawing

