

APPROVAL SPECIFICATION

Product : Internal Antenna

Model Name : MY25.5

(LTE/Sub-6 MIMO, WIFI, WIFI MIMO Antenna)

Date : 2023. 09. 04.



LS Mtron Co. Ltd.

Kiturami Building 6F, 396 Gonghang-daero

Gangseo-gu, Seoul, 07649, Korea

TEL.: 82-2-6958-6320, FAX.: 82-2-6958-6321

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1. Manufacturer

- LS Mtron Co. Ltd.
- LS Mtron Part Number: LS01-I-22002-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 MIMO Antenna (LB+MB+HB+Sub-6)

Frequency [MHz]	699	716	729	734	746	748	758	791	803	814
Peak Gain(dBi)	-2.14	-1.52	-1.33	-1.52	-0.93	-0.81	-0.12	0.79	0.97	0.56
Average Gain(dBi)	-5.68	-5.27	-4.96	-5.10	-4.43	-4.30	-3.64	-3.14	-2.94	-3.10
Frequency [MHz]	824	832	849	859	869	880	894	915	925	960
Peak Gain(dBi)	0.34	0.08	0.49	0.53	0.30	0.26	-0.63	-0.66	-0.89	-1.10
Average Gain(dBi)	-3.25	-3.45	-3.12	-3.29	-3.64	-3.77	-4.75	-4.92	-5.12	-5.73
Frequency [MHz]	1710	1755	1785	1805	1850	1880	1910	1920	1930	1980
Peak Gain(dBi)	-0.68	0.06	1.10	2.04	0.92	-0.12	-0.17	-0.20	-0.15	0.78
Average Gain(dBi)	-4.93	-4.42	-3.76	-2.88	-3.75	-4.40	-4.57	-4.62	-4.53	-3.76
Frequency [MHz]	1990	2110	2155	2170	2300	2400	2500	2570	2620	2690
Peak Gain(dBi)	0.79	2.06	1.96	1.94	1.91	1.24	2.27	0.48	0.21	-0.12
Average Gain(dBi)	-3.74	-3.07	-3.65	-3.81	-4.36	-5.07	-3.45	-4.73	-4.69	-4.76
Frequency [MHz]	3300	3500	3700	3900	4100	4200				
Peak Gain(dBi)	1.43	2.60	2.25	2.41	0.46	0.49				
Average Gain(dBi)	-3.49	-3.17	-3.12	-3.49	-4.59	-4.52				

4.1.2 WIFI Antenna (WIFI)

Frequency [MHz]	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457
Peak Gain(dBi)	2.88	2.75	2.61	2.78	2.74	2.63	2.76	2.35	2.24	2.12
Average Gain(dBi)	-1.64	-1.67	-1.73	-1.87	-1.85	-1.90	-1.69	-1.82	-1.85	-1.83
Frequency [MHz]	2462	2467	2472	5150	5200	5250	5300	5350	5400	5450
Peak Gain(dBi)	2.20	2.38	2.73	2.65	2.70	2.69	2.63	2.57	2.51	2.69
Average Gain(dBi)	-1.77	-1.86	-1.77	-1.65	-1.50	-1.75	-1.85	-1.82	-1.54	-1.44
Frequency [MHz]	5500	5550	5600	5650	5700	5750	5800	5850	5900	
Peak Gain(dBi)	2.57	2.83	2.87	2.81	2.55	2.93	2.55	2.44	2.85	
Average Gain(dBi)	-1.64	-1.86	-1.67	-1.60	-1.88	-1.74	-1.56	-1.82	-1.90	

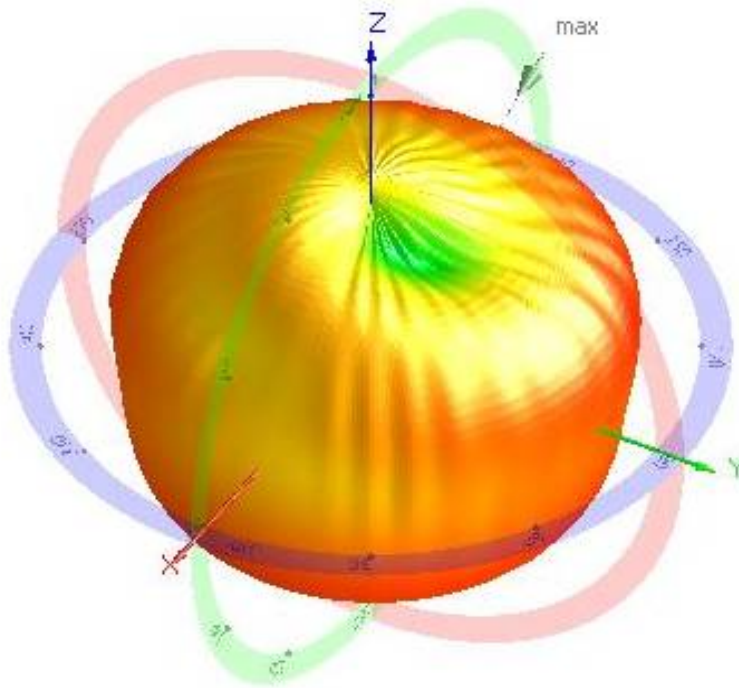
4.1.3 WIFI MIMO Antenna (WIFI)

Frequency [MHz]	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457
Peak Gain(dBi)	2.82	2.80	2.70	2.61	2.57	2.53	2.77	2.48	2.50	2.36
Average Gain(dBi)	-1.82	-1.84	-1.81	-1.88	-1.91	-1.91	-1.80	-1.78	-1.76	-1.89
Frequency [MHz]	2462	2467	2472	5150	5200	5250	5300	5350	5400	5450
Peak Gain(dBi)	2.44	2.59	2.94	2.76	2.42	2.88	2.91	2.62	2.91	2.86
Average Gain(dBi)	-1.78	-1.88	-1.47	-1.97	-1.68	-1.75	-1.89	-1.95	-1.55	-1.80
Frequency [MHz]	5500	5550	5600	5650	5700	5750	5800	5850	5900	
Peak Gain(dBi)	2.65	2.87	2.89	2.61	2.11	2.74	2.42	2.31	2.37	
Average Gain(dBi)	-1.83	-1.89	-1.74	-1.74	-1.88	-1.74	-1.94	-1.79	-1.83	

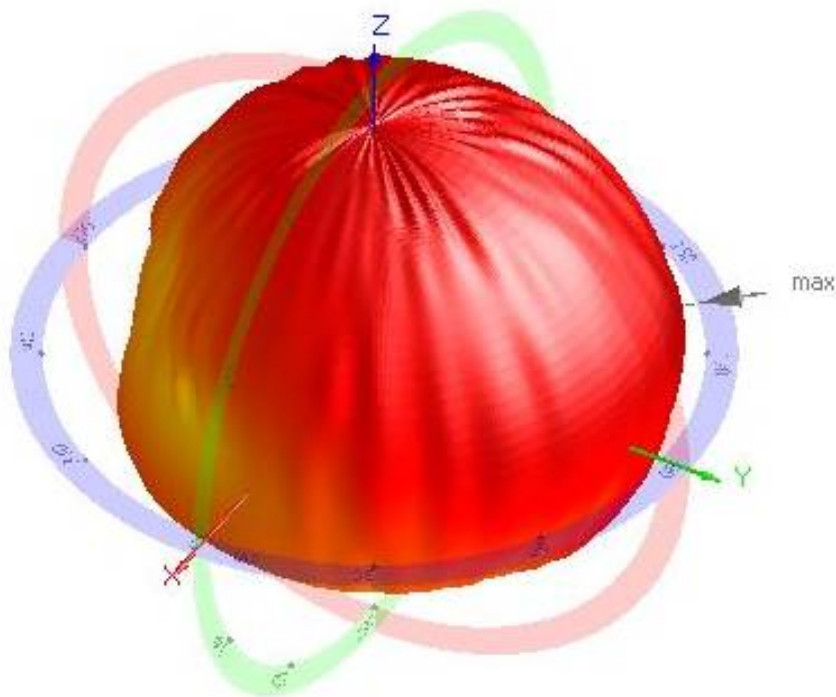
4.2 3D Radiation Pattern

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

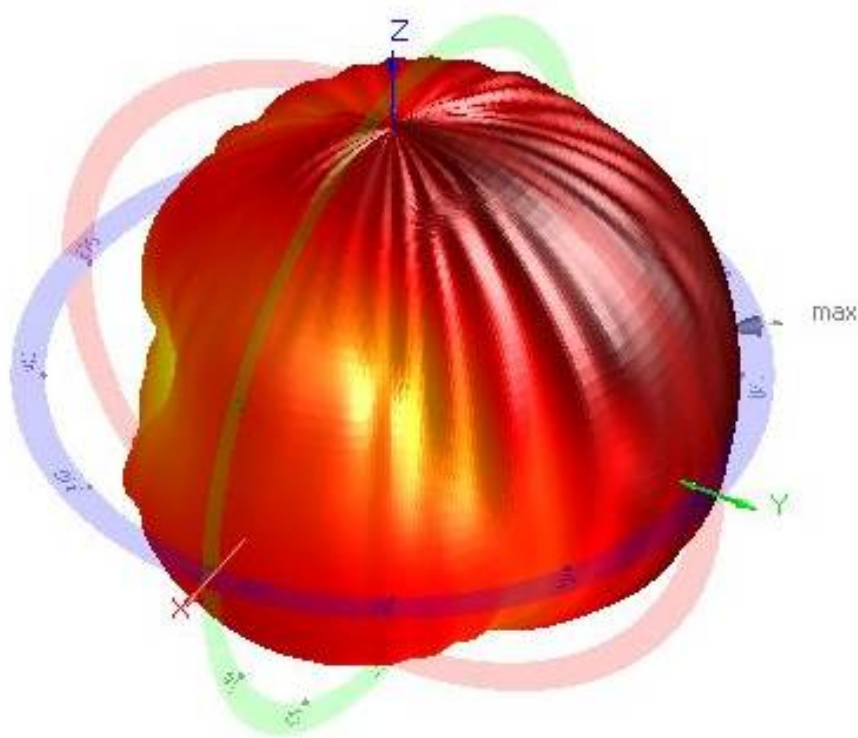
4.2.1.1 LTE LB MIMO (B5/12/17)



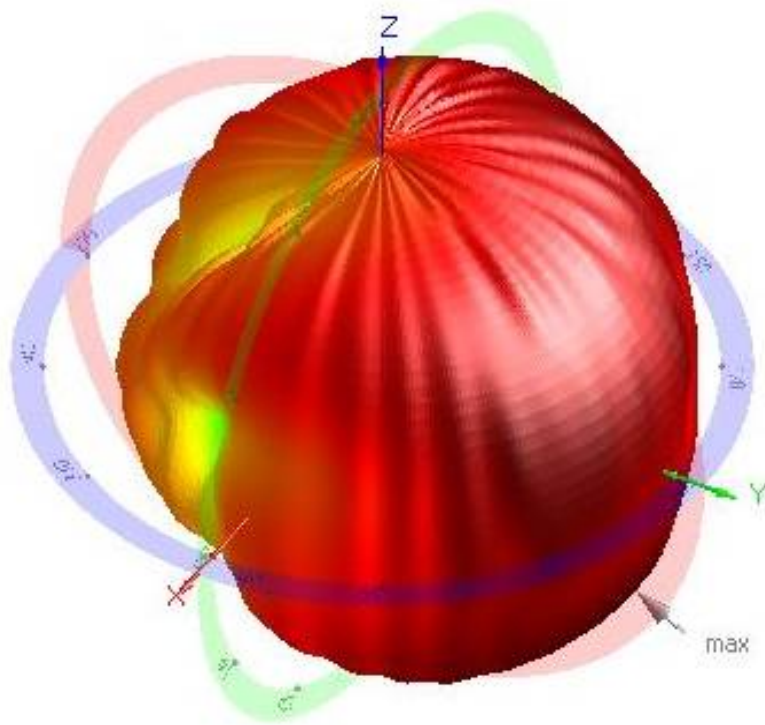
4.2.1.2 LTE MB MIMO (B2/4/66)



4.2.1.3 LTE HB MIMO (B7)

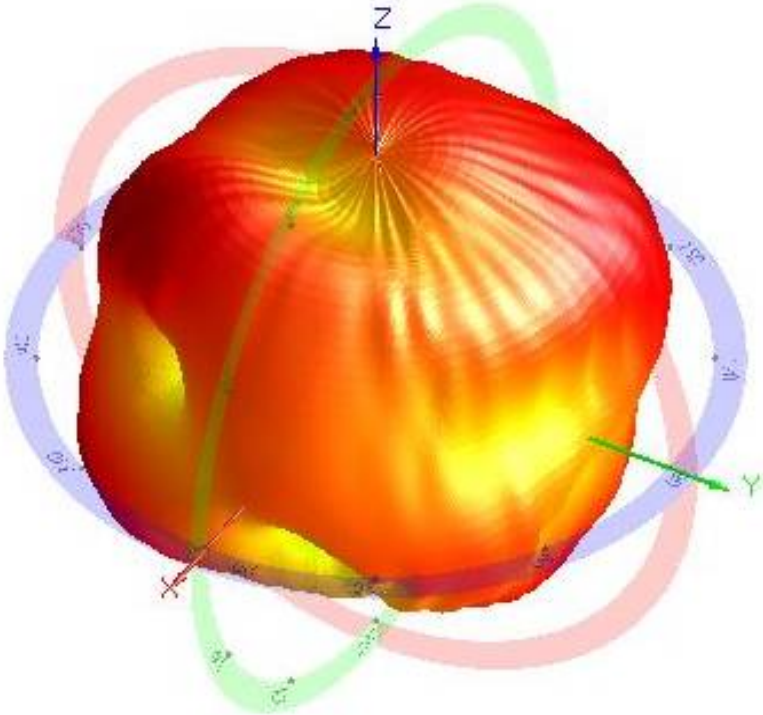


4.2.1.4 Sub-6 MIMO (n77)

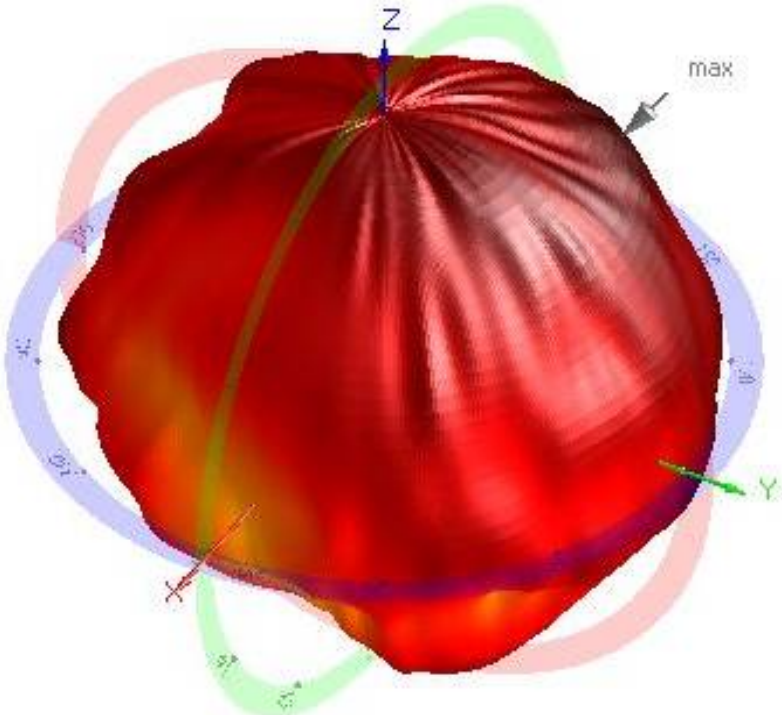


4.2.2 WIFI Antenna (BT/WiFi 2.4GHz/5GHz)

4.2.2.1 BT/WIFI 2.4G

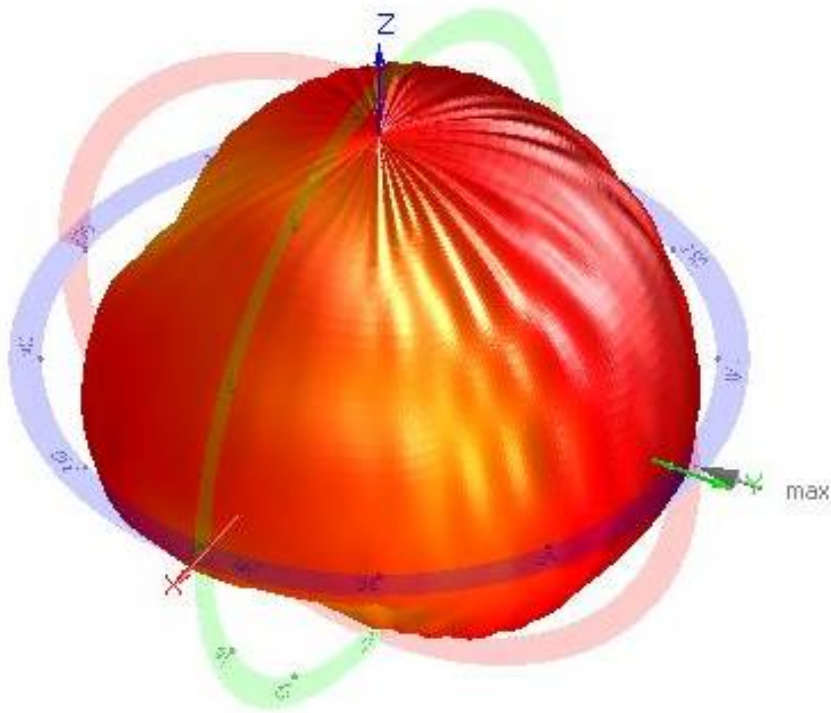


4.2.2.2 WIFI 5G

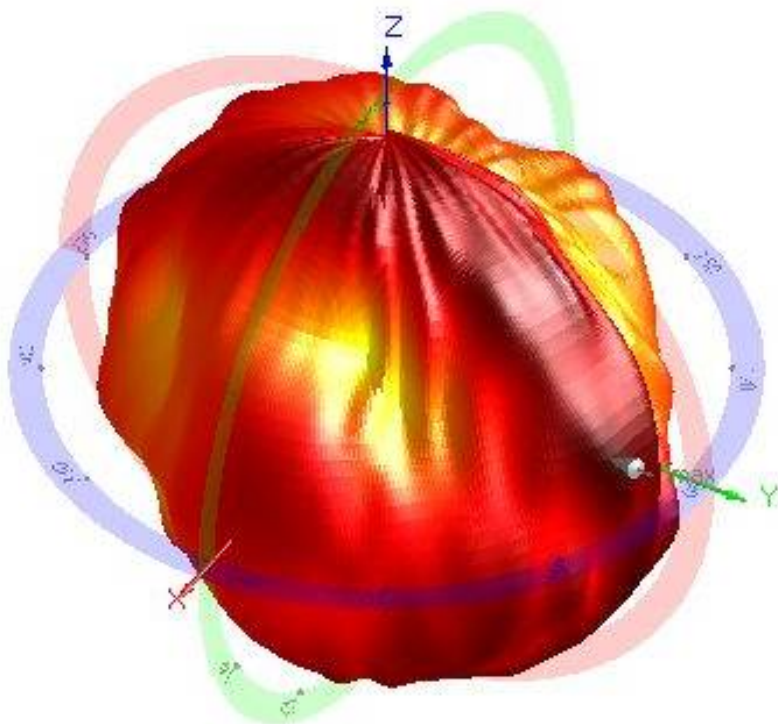


4.2.3 WIFI MIMO Antenna (BT/WiFi 2.4GHz/5GHz)

4.2.3.1 BT/WIFI MIMO 2.4G

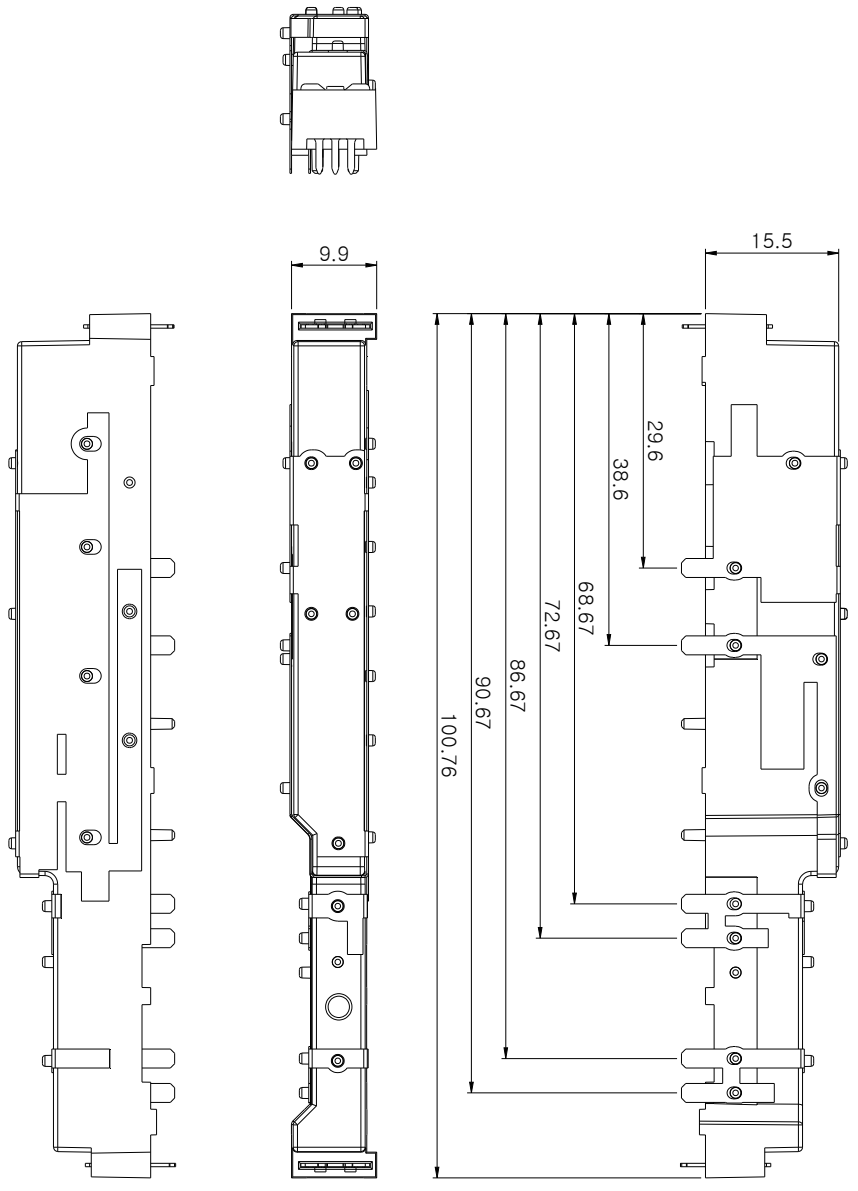




4.2.3.2 WIFI MIMO 5G



5. External Drawing

5E



DESIGNED	CHECKED	APPROVAL
LYS	YSH	KSJ
2023.08.16	2023.08.16	2023.08.16
 METRIC A3	SCALE	UNIT
1:1	mm	1/1
	SHEET	 THIRD ANGLE DIMENSION