

Cellular Antenna

TAMP125

4G LTE / 5G Broadband MIMO Antenna Module

Features and Benefits

- **High Gain MIMO Antenna Module Covering ALL 4G LTE and 5G Sub 6 Bands**
- Antenna Size: 125 mm x 80 mm x 22 mm (not including Cable and Connector)
- Connector: SMA
- RF Cable Length: 1.5M
- Operating Frequency Bands
 - 600~960MHz
 - 1710~2170MHz
 - 2500~2690MHz
 - 3300~6000MHz
- Supports 4x4 MIMO at 1710~6000MHz
- Supports 2x2 MIMO at 600~960MHz
- High Peak Gain up to 3.3 dB
- High Efficiency up to 53%
- RoHS Compliance



INTRODUCTION

The TAMP125 is a MIMO antenna module supporting entire 4G LTE and 5G sub6 bands, including the very low 600 MHz band, with good gain and isolation. It supports 2x2 MIMO at the low bands and 4x4 MIMO in mid/high bands. It can be used for advanced wireless communication devices or systems.

APPLICATION

Any 4G/5G wireless device or system that requires MIMO coverage with good gain and isolation. Ideal for external / remote antenna installations. Examples – Home networking, Logistic, Automotives, Routers, Gateways, CPEs, and more IoT devices.

Performance

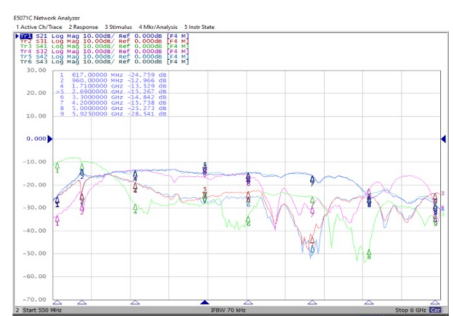
Gain and Isolation

	Frequency [Mhz]	Low Band					Mid/High Band					Ultra High Band							
		617	699	746	824	960	1710	1850	2170	2360	2496	2690	3300	3600	3800	4200	4400	5000	5925
Efficiency	5G Main-Ant1	33.5	48.1	41.3	53.1	46.3	31.9	28.1	39.6	38.1	46.6	46.3	53.5	50.4	37.3	38.0	33.2	30.3	45.6
	5G AUX-Ant3						29.4	31.4	30.6	36.1	36.5	37.8	42.9	45.9	33.0	35.1	32.0	26.7	30.3
	5G AUX-Ant4						29.1	31.6	28.3	31.3	33.2	35.5	39.6	42.8	28.8	32.7	30.1	26.0	29.0
	Average	33.5	48.8	46.1	52.6	43.5	31.5	30.7	36.0	36.0	41.0	41.5	47.3	47.1	34.4	36.3	31.8	28.7	37.3
Peak Gain	5G Main-Ant1	-0.75	1.36	-0.18	1.14	1.00	-0.76	-0.93	-0.51	0.43	1.18	0.83	0.67	0.94	-0.33	1.37	1.31	1.00	3.36
	5G AUX-Ant3						-2.51	-1.99	-1.62	-0.07	-0.94	-0.14	2.01	1.56	0.77	-0.09	-0.75	0.07	-0.03
	5G AUX-Ant4						-2.22	-1.99	-1.72	-1.19	-0.52	-0.93	1.99	1.03	0.66	-0.22	-0.61	-0.22	-0.55
	5G Main-Ant2	-0.35	0.48	0.42	-0.06	-0.08	-0.73	-0.63	0.54	0.46	1.07	1.45	0.61	1.03	0.20	1.41	1.23	1.14	2.91
	Average	-0.55	0.92	0.12	0.54	0.46	-1.55	-1.38	-0.83	-0.09	0.20	0.30	1.32	1.14	0.32	0.62	0.30	0.50	1.42

SWR



Isolation Between Ports



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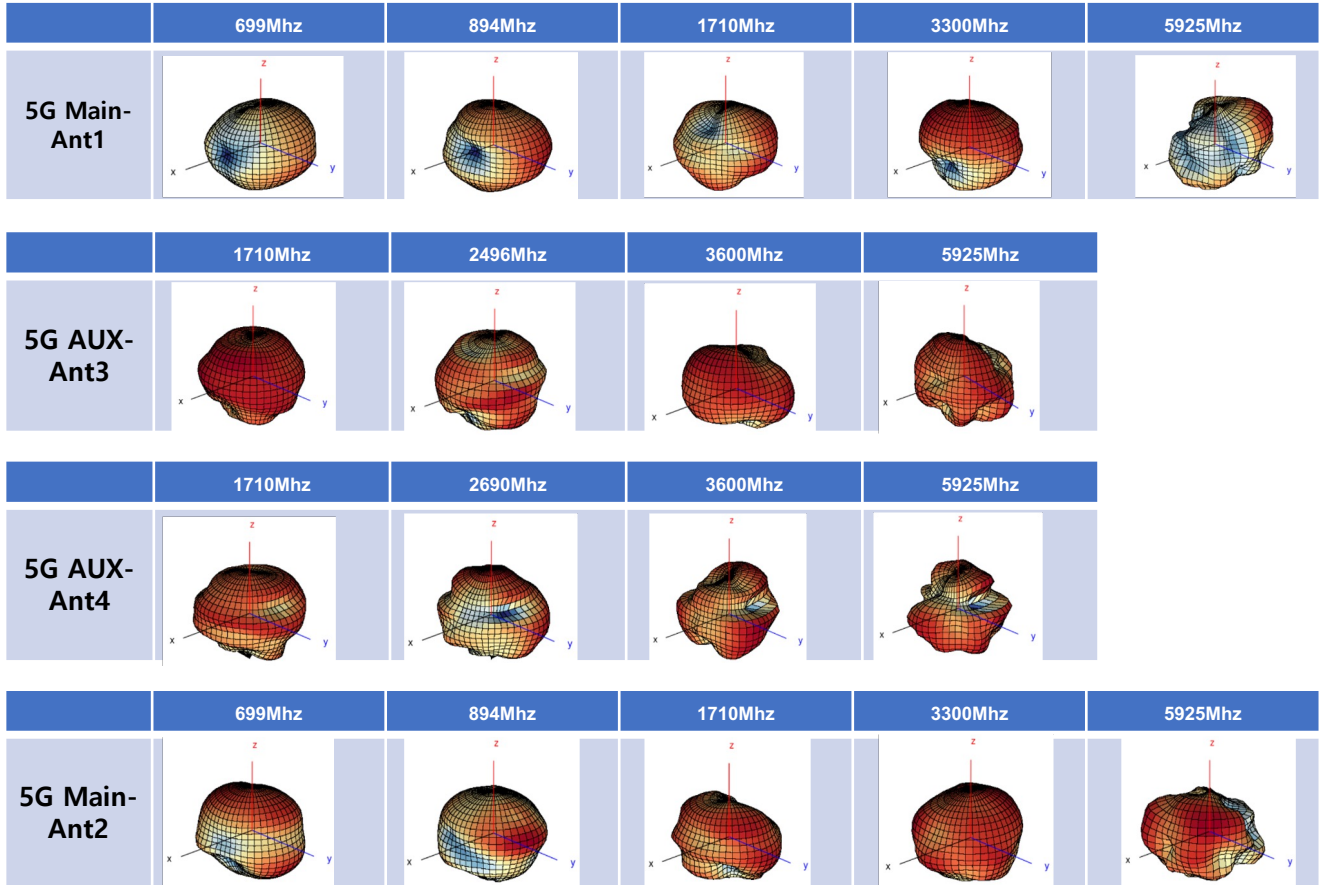
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Performance (continued)



Dimension (unit: mm)

