

GT12 Cellular Antenna

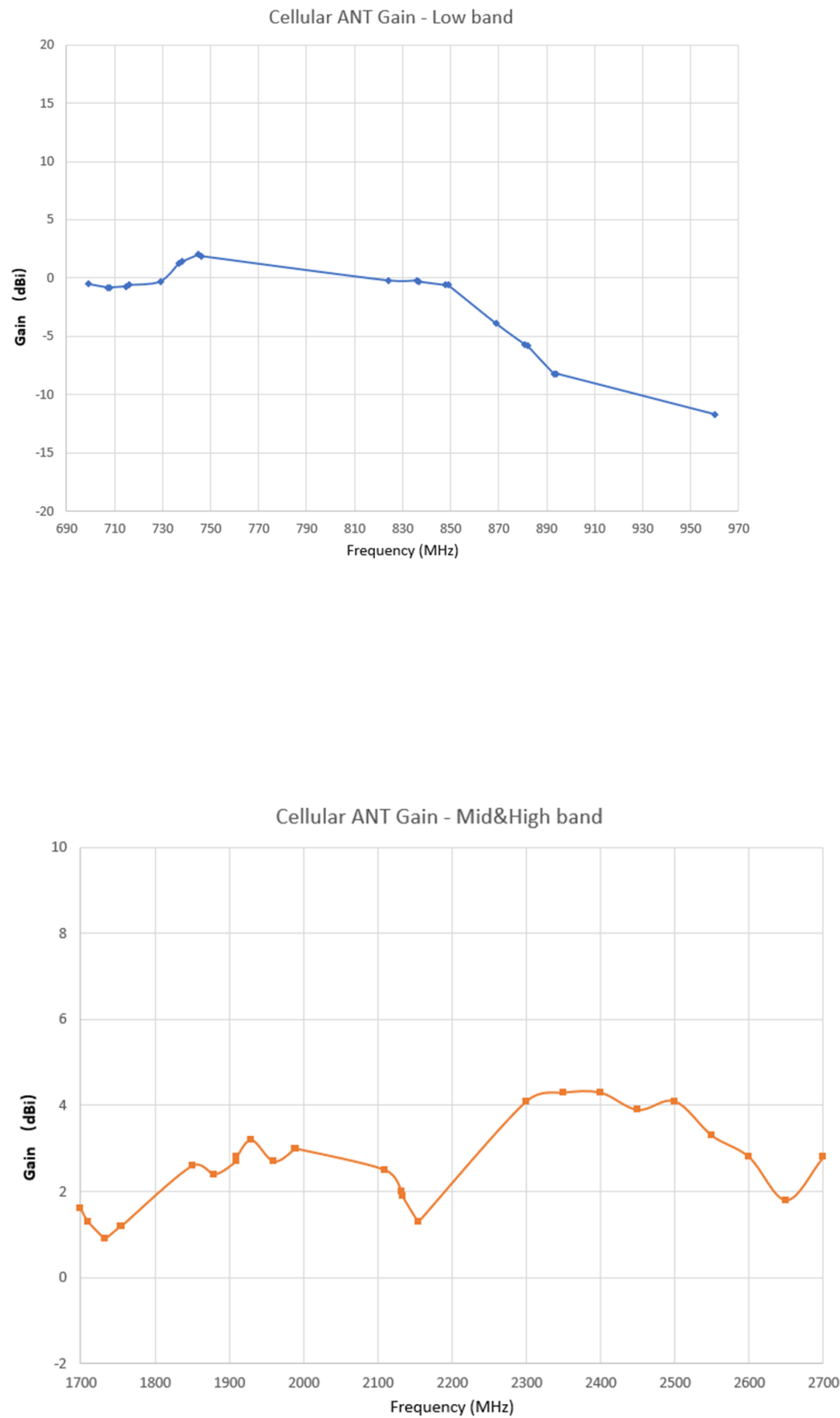
Electronic Specification

Frequency range	Low:	698 - 960 MHz
	High:	1710 - 2690 MHz
Impedance		50 Ohm
VSWR	Low:	<6
	High:	<3.3
Polarization		Linear
Impedance		50 Ohm
Gain (with mismatching attenuation)		2.7dBi max. 698 – 960MHz
		3.0dBi max 1700 -- 1900MHz
		3.0dBi max 1900 – 2690MHz

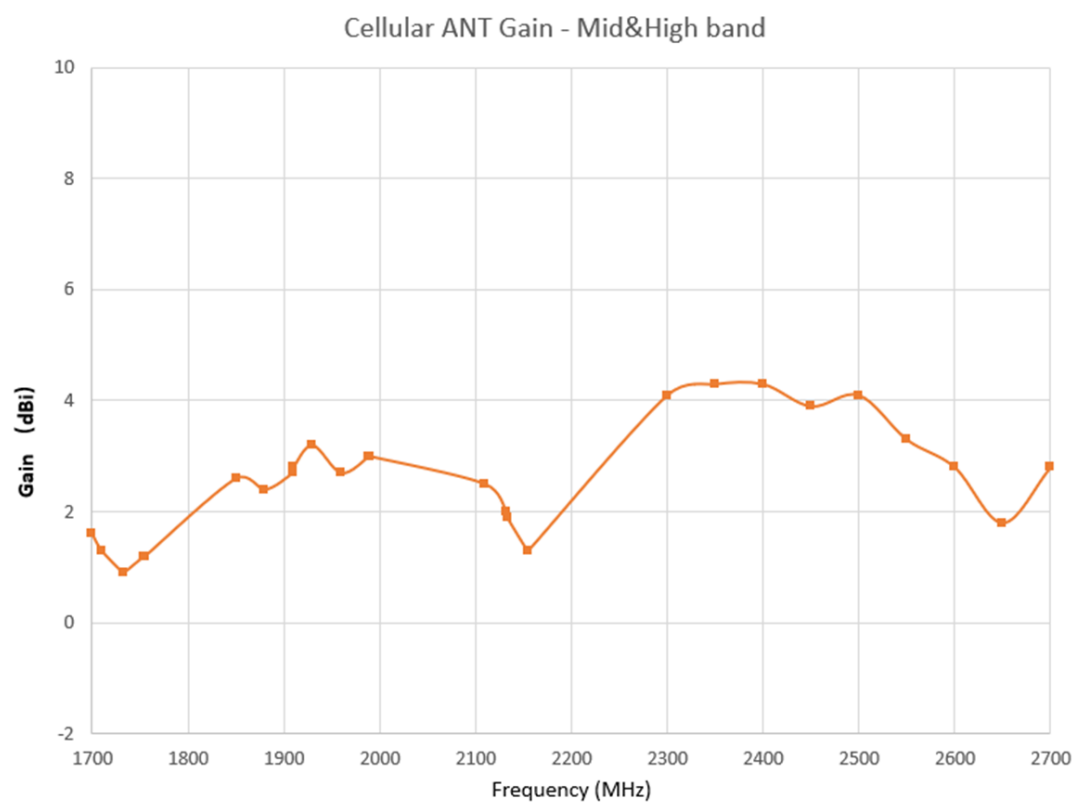
Mechanical Specification

Dimension	Embedded in PCB	53mm*14mm
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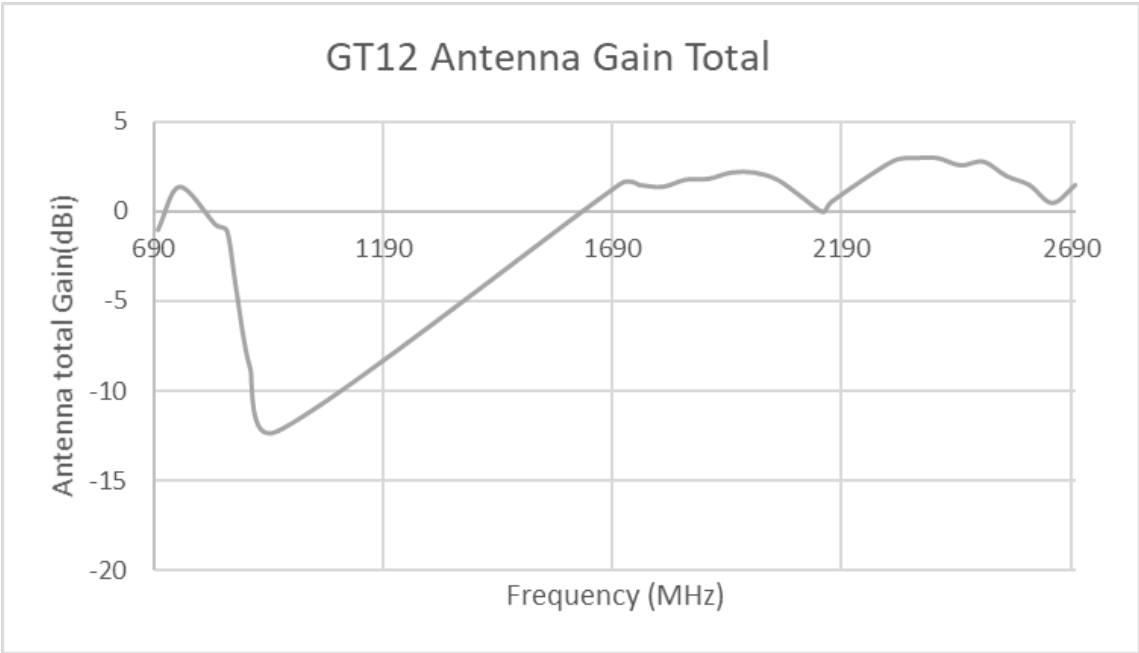
GT12 Cellular Antenna Gain (without matching)



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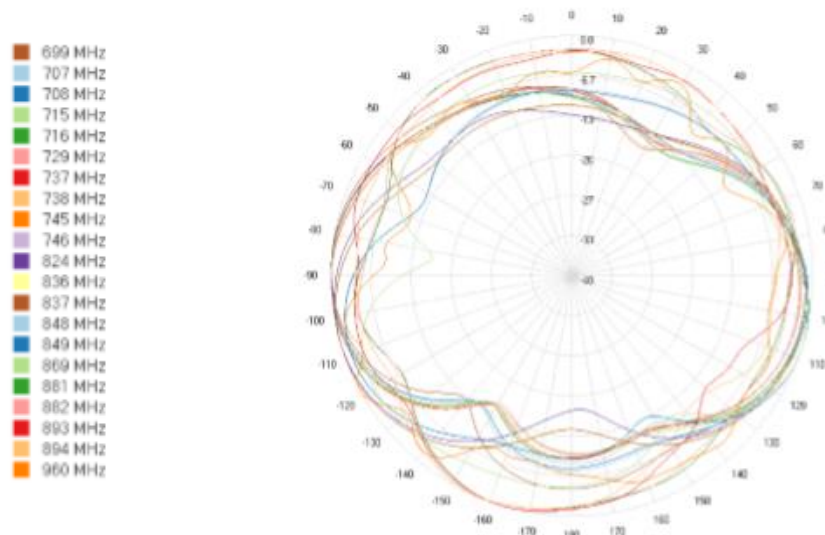
GT12 Cellular Antenna Total Gain after impedance matching



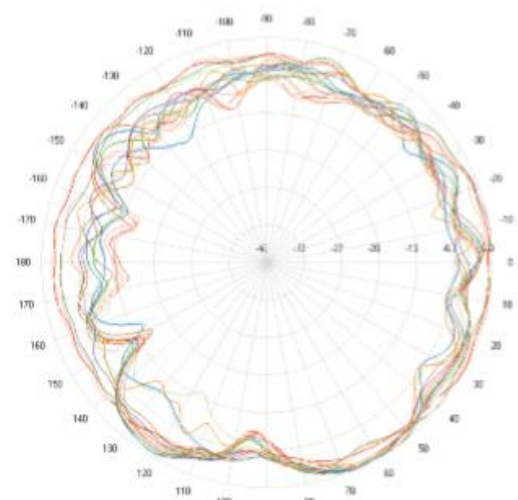
Freq (MHz)	Ant G (dBi)	Mismatchinng Antennuation (dB)	Total Gain (dBi)
699	-0.5	-0.5	-1
746	1.9	-0.5	1.4
824	-0.2	-0.5	-0.7
850	-0.6	-0.5	-1.1
870	-3.9	-0.5	-4.4
900	-8.2	-0.5	-8.7
960	-11.7	-0.5	-12.2
1710	1.3	0.8	1.6
1750	1.2	-0.8	1.5
1800	2.2	-0.8	1.4
1850	2.6	-0.8	1.8
1900	2.65	-0.8	1.85
1950	3	-0.8	2.2
2000	3	-0.8	2.2
2050	2.6	-0.8	1.8
2100	2.2	-1.3	0.9
2150	1.3	-1.3	0
2170	1.9	-1.3	0.6
2300	4.1	-1.3	2.8
2350	4.3	-1.3	3
2400	4.3	-1.3	3
2450	3.9	-1.3	2.6
2500	4.1	-1.3	2.8
2550	3.3	-1.3	2
2600	2.8	-1.3	1.5
2650	1.8	-1.3	0.5
2700	2.8	-1.3	1.5

GT12 Cellular Antenna Radiation Pattern

Low Band

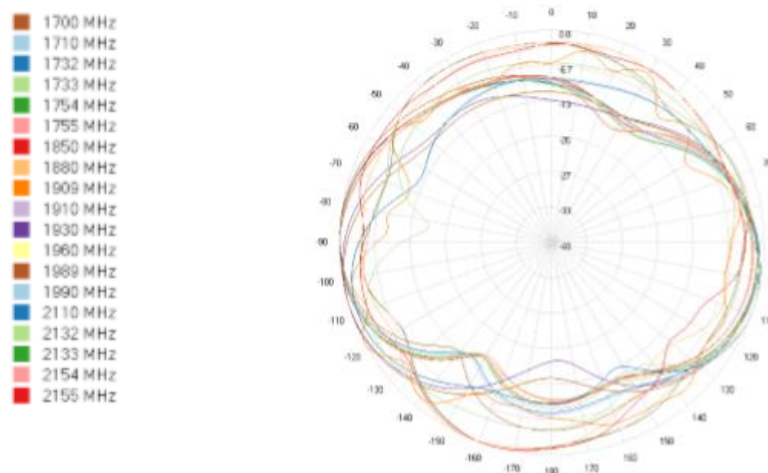


Azimuth Pattern @ Gmax

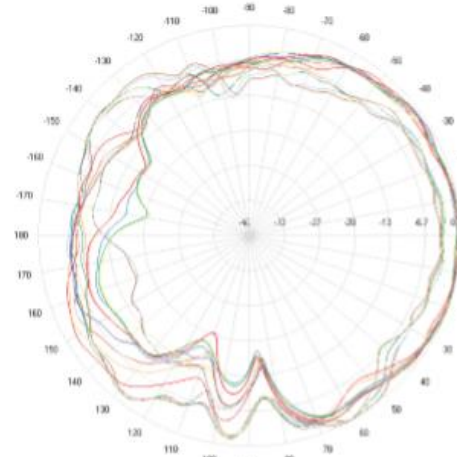


Elevation Pattern @ Gmax

Mid to High Band



Azimuth Pattern @ Gmax



Elevation Pattern @ Gmax