

LTE Omni Antenna(Dipole Structure) For LTE FDD Wide-Band Design 698~960MHz / 1710~2170 / 2500~2690MHz

GTT P/N: OA-LTE-01-01-GTT



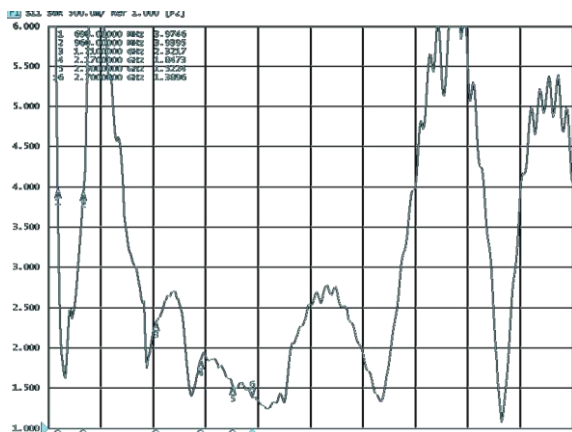
✓ RF Specification

- Frequency Range: 698~960MHz / 1710~2170MHz / 2500~2690 MHz
- Polarization: Linear, Vertical
- HPBW / Horizontal: 360°
- HPBW / Vertical: 90°
- Peak Gain: 0.7 dBi Max. / 3.8 dBi Max. / 3.2 dBi Max.
- Efficiency: 34% Min. / 47% Min. / 76% Min.
- VSWR: 4.0 Max.:1 / 2.6 Max.:1 / 2.0 Max.:1
- Power Handling: 2W(cw)
- Impedance: 50 Ohms
- Connector: SMA Plug/Joint with OD1.37mm to U.FL-LP-088

✓ Environmental & Mechanical Characteristics

- Temperature: -10°C to +55°C
- Humidity: 95% @55°C
- Antenna Housing Color: White/Black
- Antenna Housing Material: PC(UL-94V0)
- Weight: 16.1g
- Dimensions: 115.0(L)x38.7(W)x10.0(T)mm

✓ VSWR 4.0max.:1 / 3.0max.:1 / 2.0max.:1 for B12/B3/B7/B20



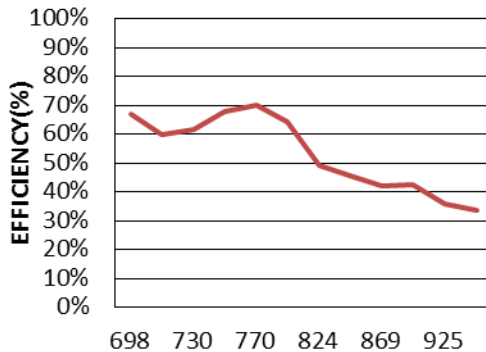
Passive Measurement: VSWR, Gain, Efficiency

Frequency(MHz)	690~960	1710~2170	2500~2690
VSWR	4.0 Max. : 1	2.6 Max. : 1	2.0 Max. : 1

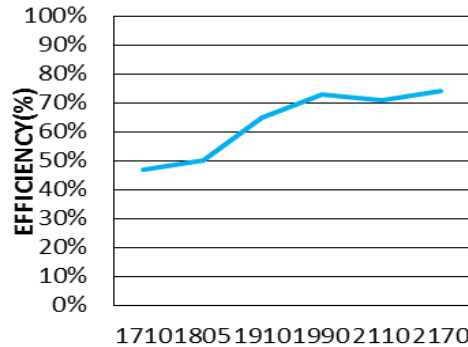
SUMMARY

EFFICIENCY

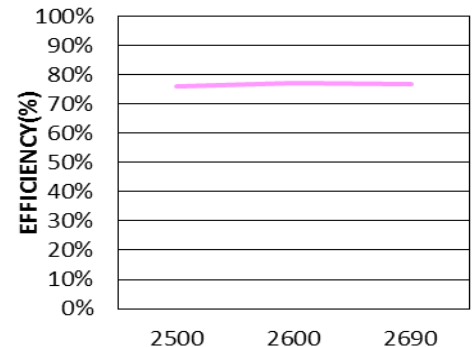
698MHz~960MHz



1710MHz~2170MHz

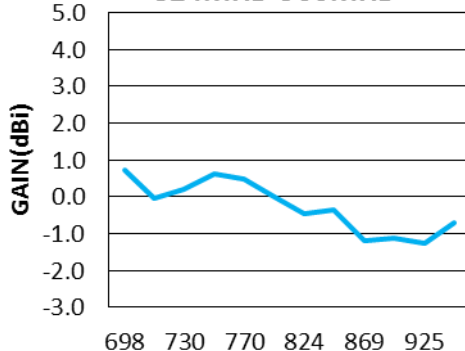


2500MHz~2690MHz

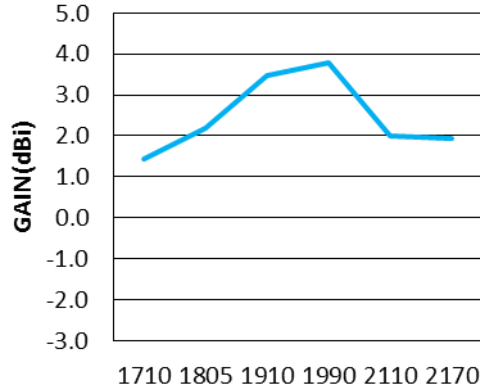


GAIN

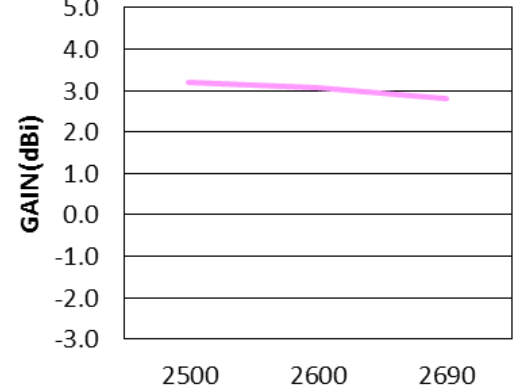
824MHz~960MHz



1710MHz~1880MHz

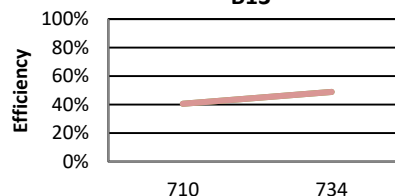


2500MHz~2690MHz

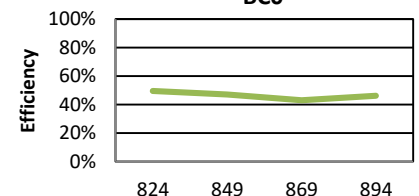


	Frequency (MHz)	3D		
		Efficiency	Avg. Gain	Peak Gain
B13	710	41%	-3.9	-2.3
B13	734	49%	-3.1	-0.1
BC0	824	50%	-3.0	0.4
BC0	849	47%	-3.3	0.7
BC0	869	43%	-3.7	0.3
BC0	894	46%	-3.4	-0.3
B4	1710	57%	-2.4	0.7
BC1	1880	58%	-2.3	0.9
BC1	1920	59%	-2.3	1.5
B4	2110	78%	-1.1	3.4

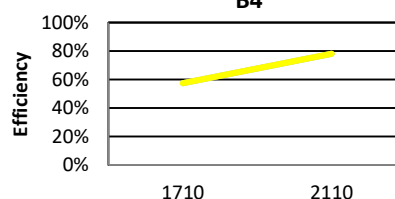
B13



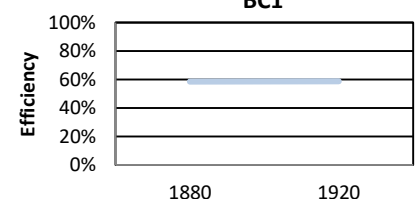
BC0



B4



BC1



Radiation Pattern

XY-plane

YZ-plane

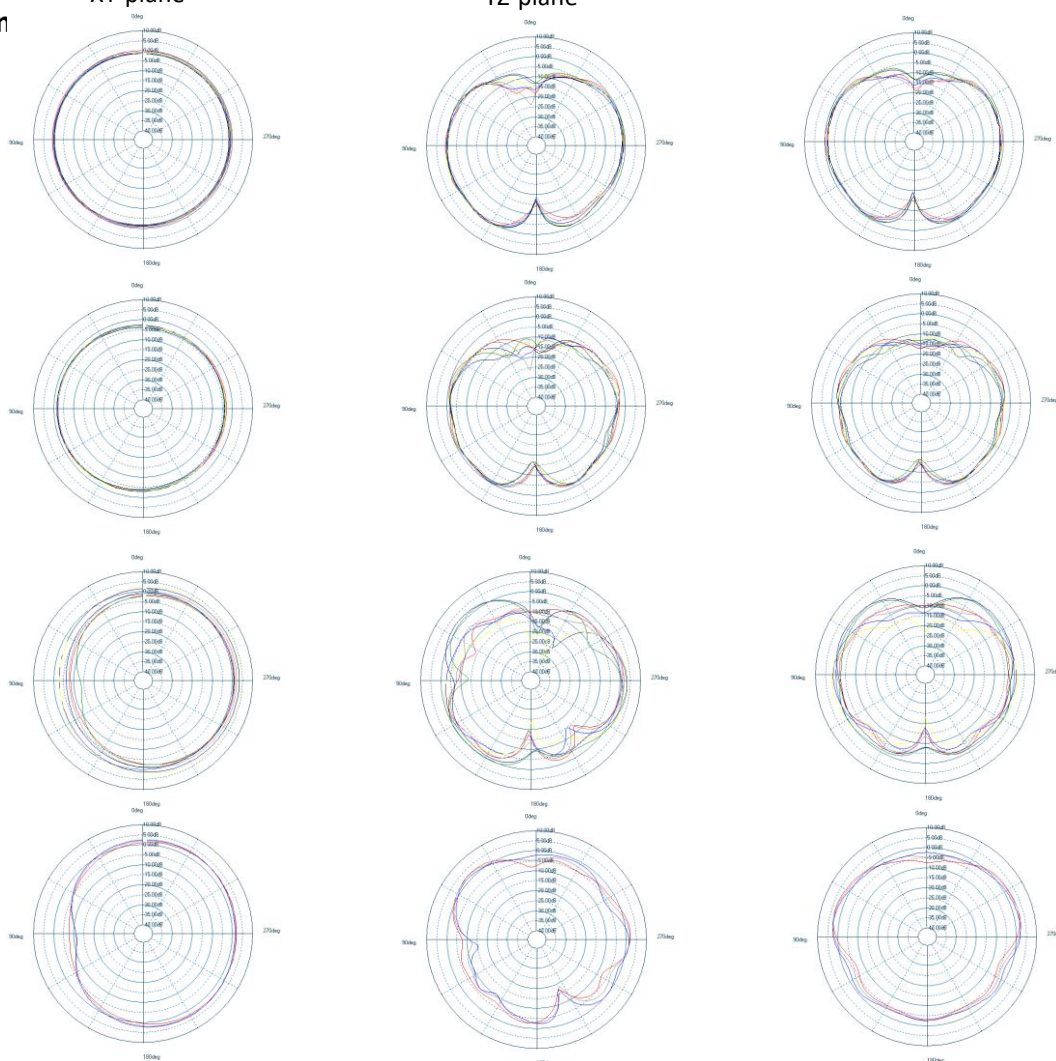
ZX-plane

— 698.00(MHz)
— 710.00(MHz)
— 730.00(MHz)
— 750.00(MHz)
— 770.00(MHz)
— 790.00(MHz)

— 824.00(MHz)
— 849.00(MHz)
— 869.00(MHz)
— 894.00(MHz)
— 925.00(MHz)
— 960.00(MHz)

— 1710.00(MHz)
— 1805.00(MHz)
— 1910.00(MHz)
— 1990.00(MHz)
— 2110.00(MHz)
— 2170.00(MHz)

— 2500.00(MHz)
— 2595.00(MHz)
— 2690.00(MHz)



Mating Dimension for Joint Type Antenna

