



Product Name: LTE Hinge Rotatable Terminal Antenna

Part Number: TA-C12B-A-L02

Feature:

- LTE 698-960MHz, 1710-2690MHz, 3300-3500MHz Supported
- Hinge Rotatable, 90 Degree
- Connector: SMA Male

Application:

- LTE Router Application
- Smart Metering Application
- IoT Device Application

LTE Hinge Terminal Antenna

MODEL: TA-C12B-A-L02

WI-RD-D-174 V1.0

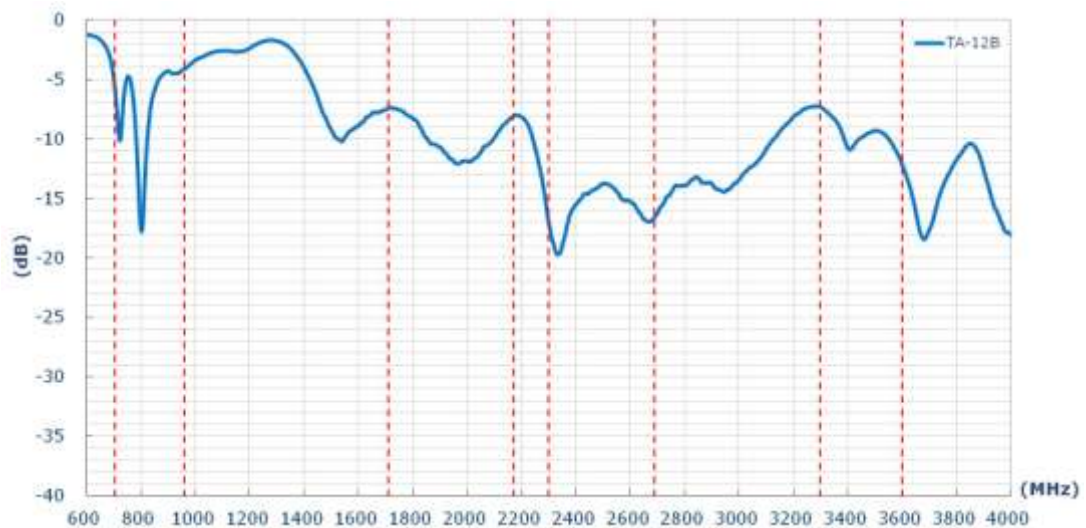
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I. Specifications:

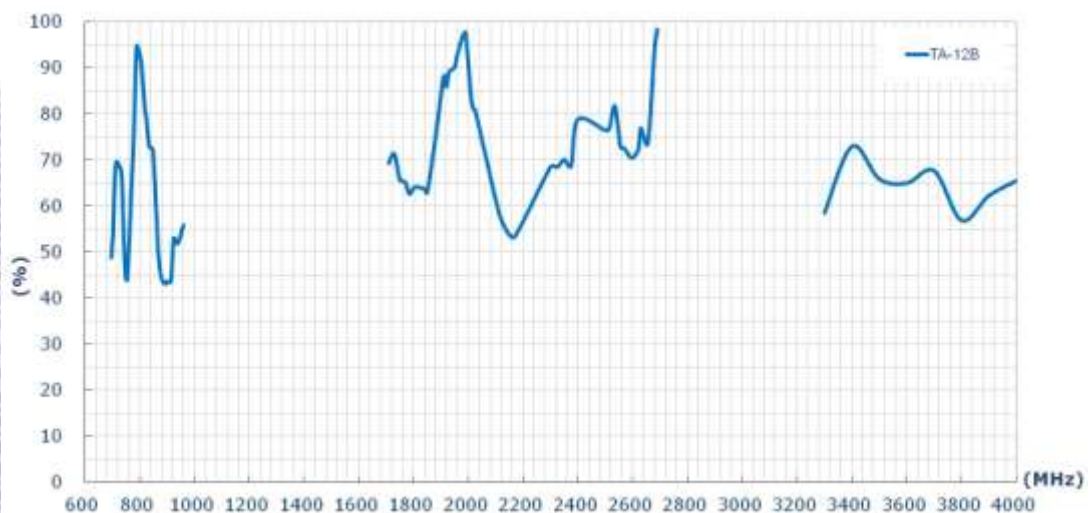
Category	Specifications						
LTE Electrical Characteristics							
Polarization	Linear						
Frequency (MHz)	698 ~ 824	824 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170	2300 ~ 2690	3300 ~ 3500
Efficiency (%)	64.15	54.34	66.46	85.77	78.77	73.71	65.46
Average Gain (dBi)	-1.93	-2.65	-1.77	-0.67	-1.04	-1.33	-1.84
Peak Gain (dBi)	2.76	2.87	3.16	5.46	5.46	5.38	5.59
V.S.W.R	< 3						
Return Loss (dB)	< -5						
Test Condition	210 x 125 mm ² (Ground Plane)						
Impedance	50 Ω						
Physical Condition							
Dimension (mm)	221(L) x 27(W) x 13.5(T)						
Connector	90° hinged SMA(M)						
Environmental Conditions							
Operation Temperature	-40 ~ +85 °C						
Storage Temperature	-40 ~ +85 °C						
Relative Humidity	95% non-condensing						

II. Antenna Technical Parameters:

S11-parameters (dB)



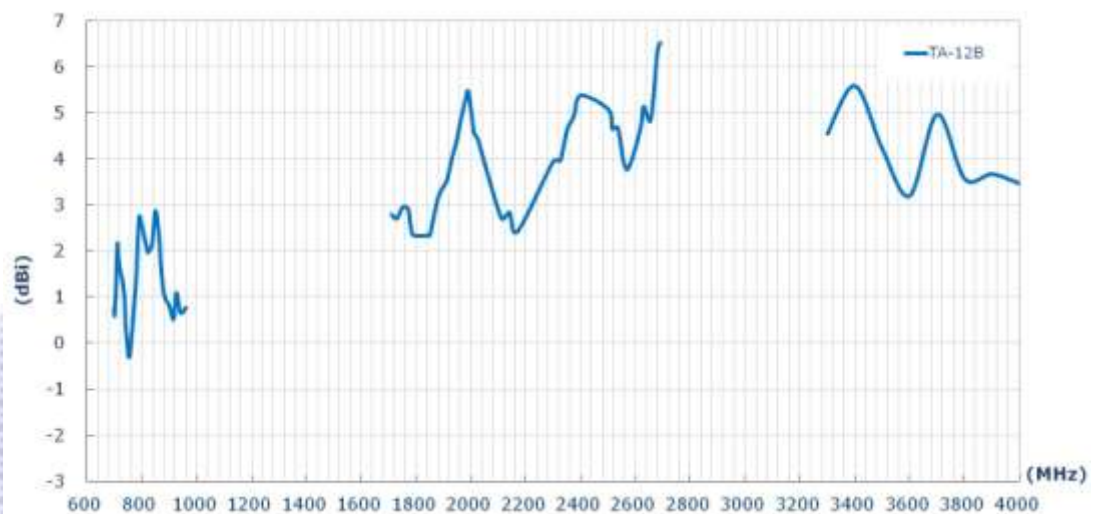
Efficiency (%)



Average Gain (dBi)

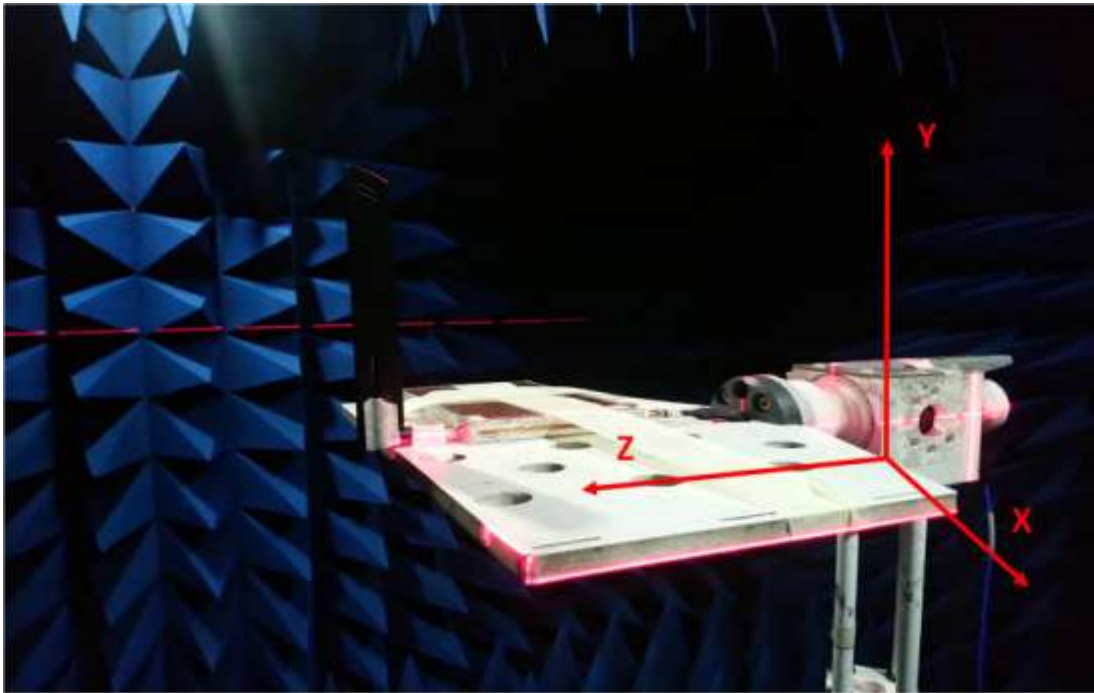


Peak Gain (dBi)



III. Antenna Radiation Pattern Measurement:

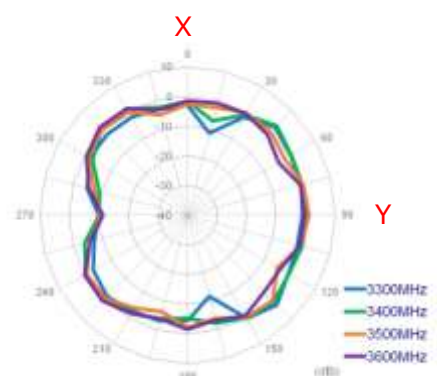
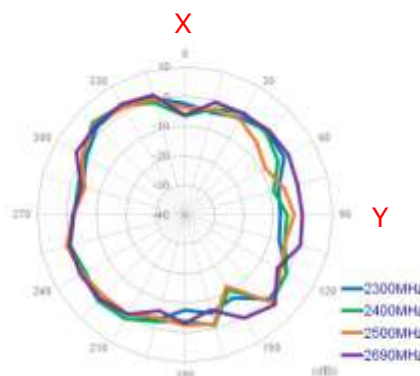
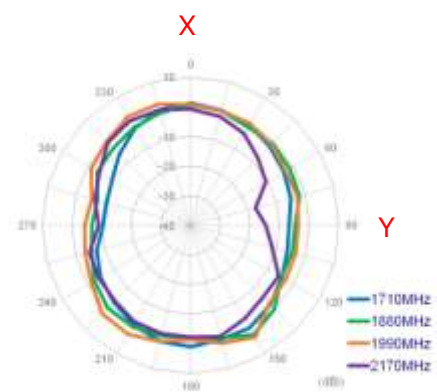
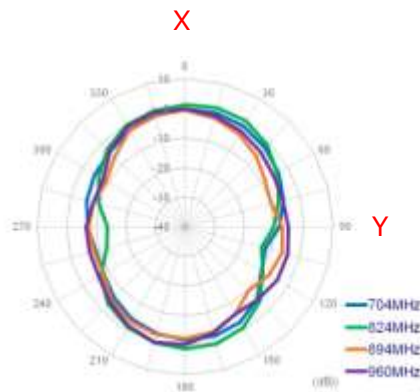
The antenna radiation patterns were measured in certified Anechoic Chamber. The measurement setup as below,



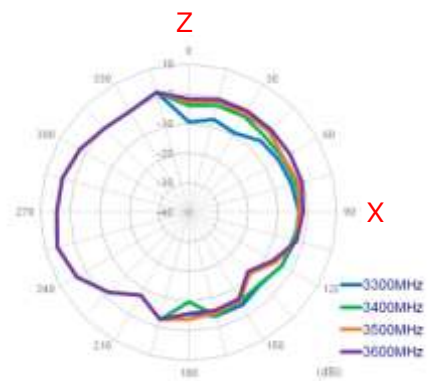
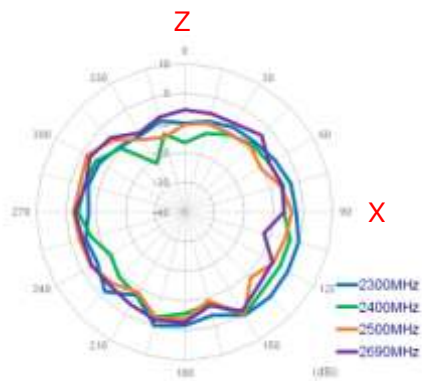
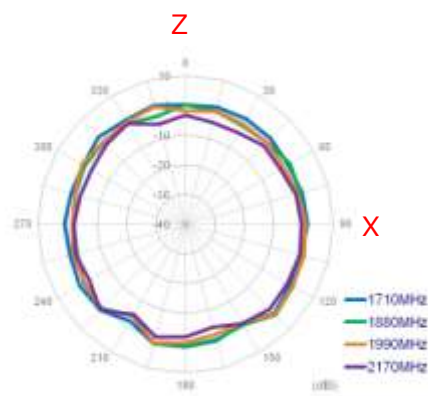
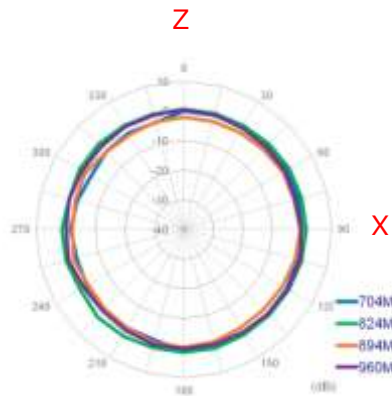
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IV. 2D Radiation Pattern:

X-Y plane

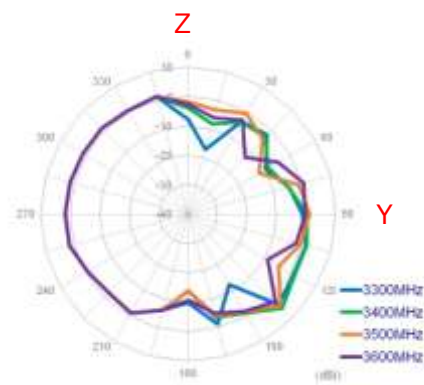
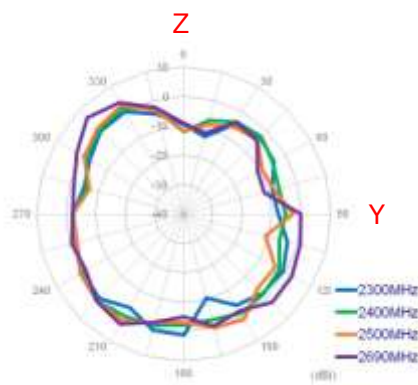
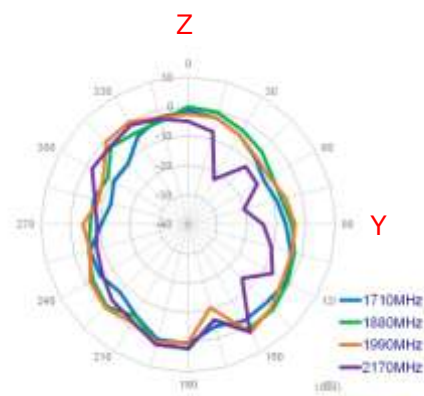
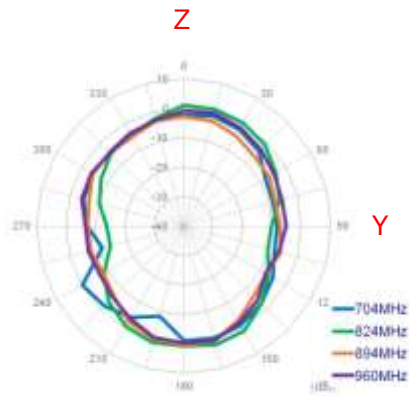


X-Z plane



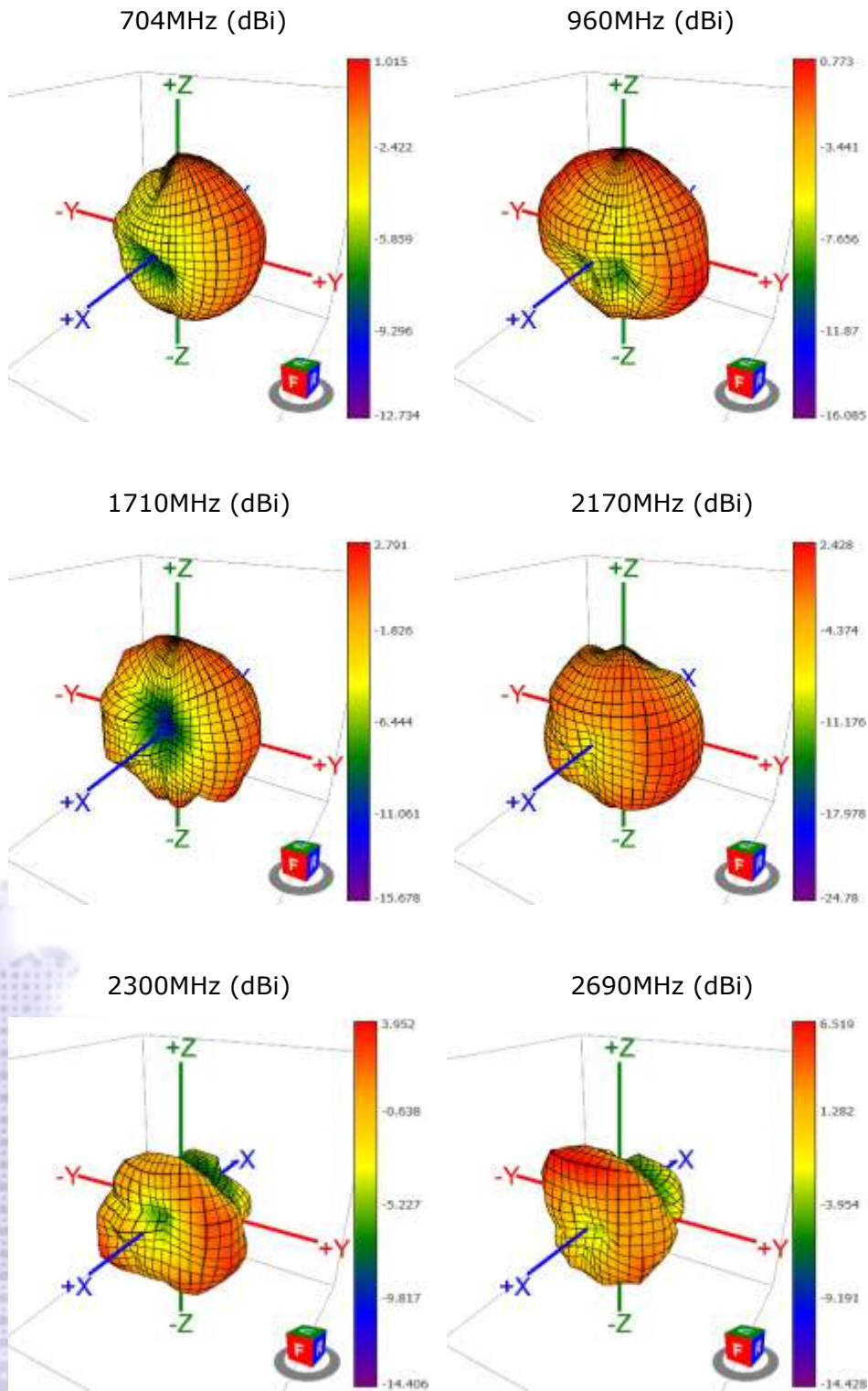
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Y-Z plane

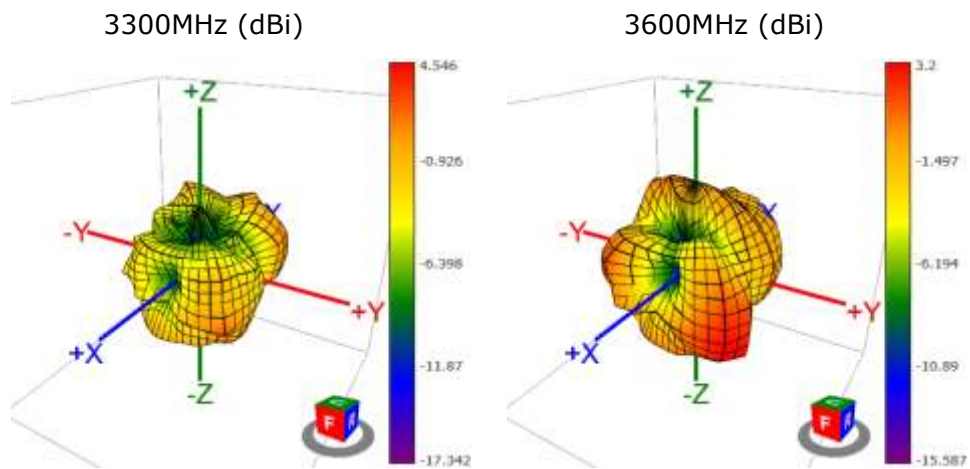


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V. 3D Radiation Pattern:



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VI. Mechanical Drawing (Unit: mm):

