

# LTE Main & Diversity & GNSS Triple Port u.FL Antenna – 100mm

## Electrical Specifications

### LTE1 & LTE2 :

Frequency	698-960/1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600 MHz
Nominal Impedance	50Ω
Return loss(698-960MHz)	-6dB
Return loss(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz)	-7.5dB
Isolation(698-960MHz)	-10dB
Isolation(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz)	-13dB
Average Total Efficiency (698-960MHz)	55%
Average Total Efficiency (1427.9-1510.9MHz)	60%
Average Total Efficiency (1559-1610MHz)	60%
Average Total Efficiency (1695-2200MHz)	65%
Average Total Efficiency (2300-2700MHz)	70%
Average Total Efficiency (3400-3600MHz)	65%

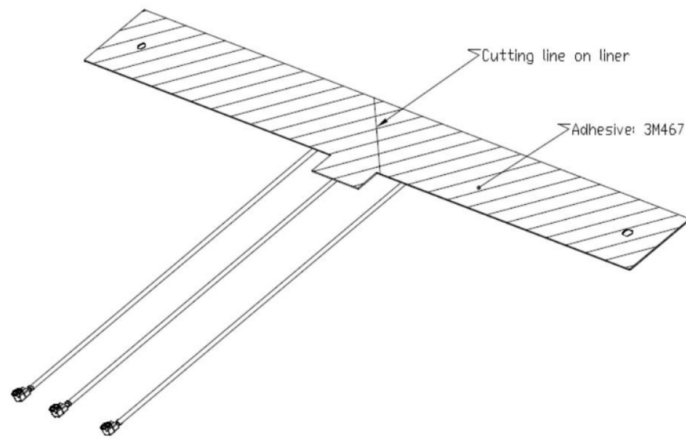
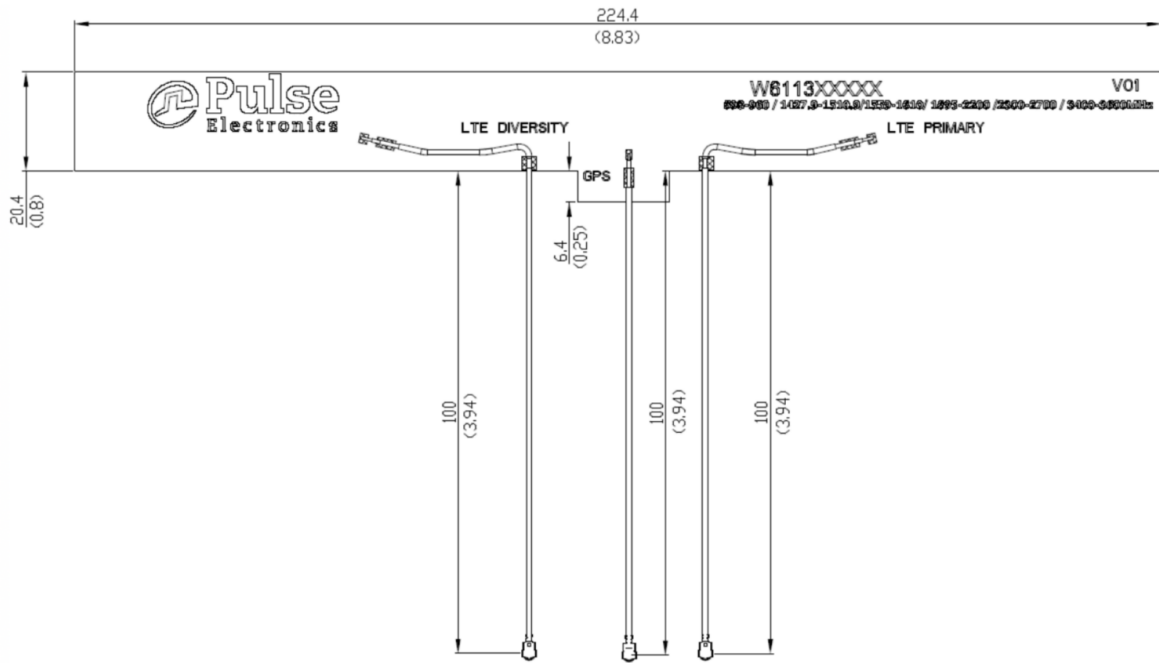
Peak Gain (698-960MHz)	2.9dBi
Peak Gain (1427.9-1510.9MHz)	1.7dBi
Peak Gain (1559-1610MHz)	1.8dBi
Peak Gain (1695-2200MHz)	3.4dBi
Peak Gain (2300-2700MHz)	3.8dBi
Peak Gain (3400-3600MHz)	4.2dBi

**GNSS :**

Frequency	1570-1610MHz
Nominal Impedance	50Ω
Return loss (1570-1610MHz)	-10dB
Average Total Efficiency (1570-1610MHz)	35%
Peak Gain (1570-1610MHz)	0.8dBi
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	3W
Connector type	U.FL compatible
Cable type	Low loss Φ1.13mm Coaxial Cable
Cable length	100mm

(\*) All RF parameters measured on 2mm thick PC plate

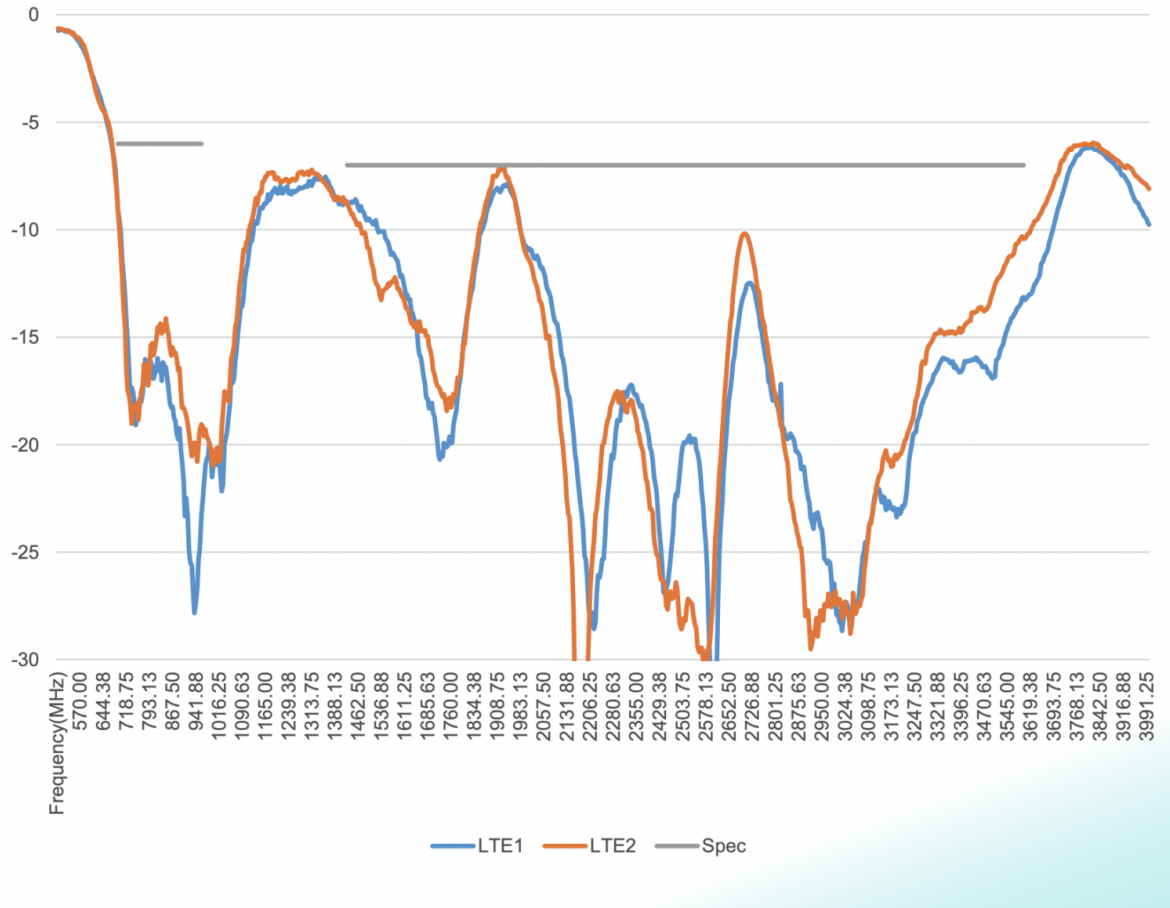
## Mechanical Drawing



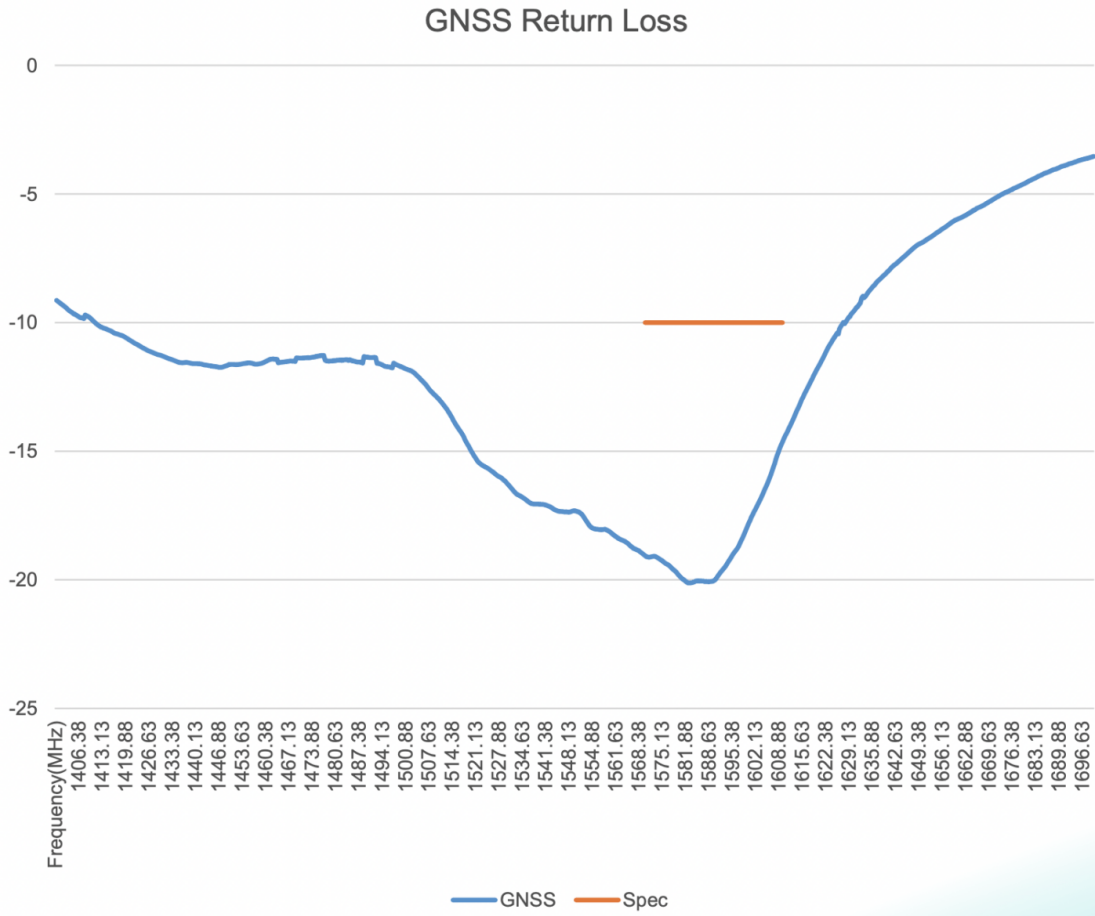
## Return Loss

# Return Loss [dB]

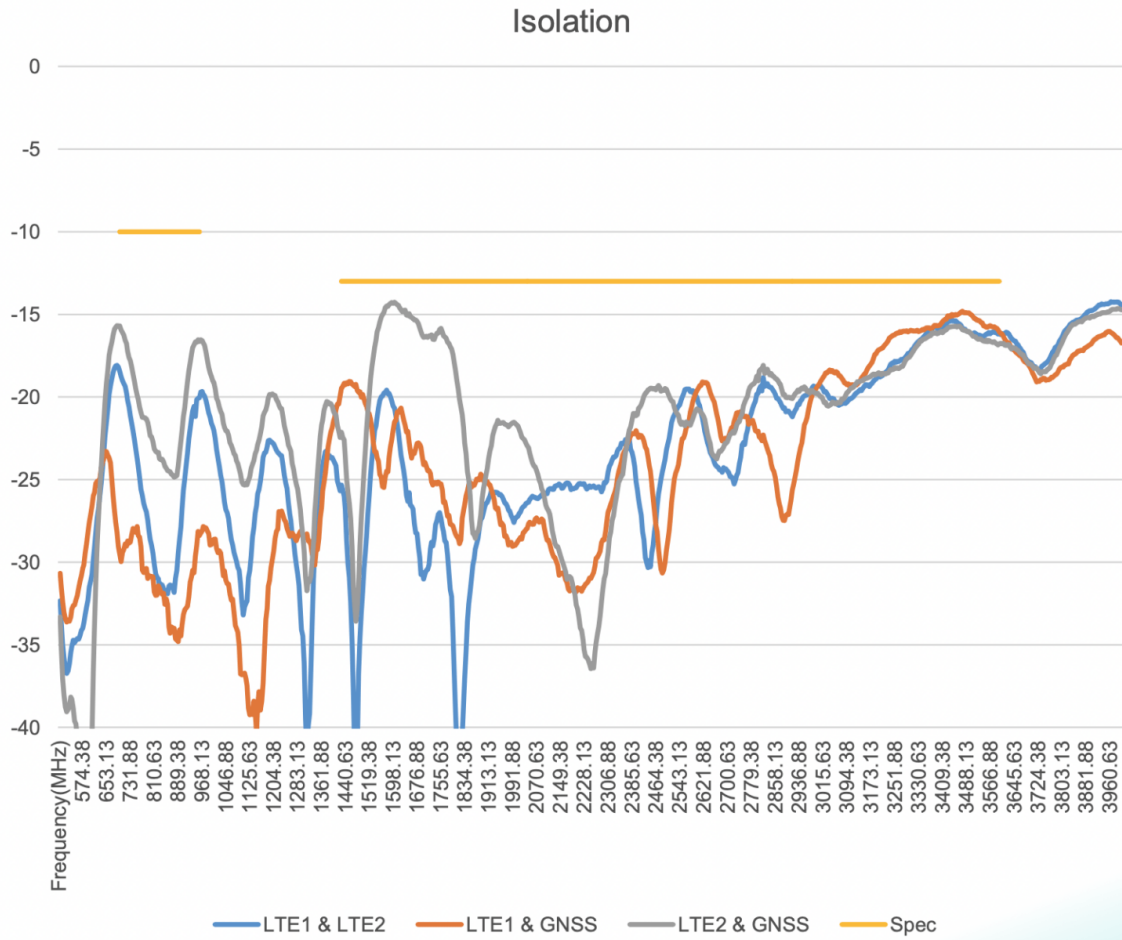
## LTE1 & LTE2 Return Loss



# Return Loss [dB]



## Isolation



## GNSS Radiation Pattern

GNSS radiation pattern  
1570-1610MHz  
(1575MHz)

