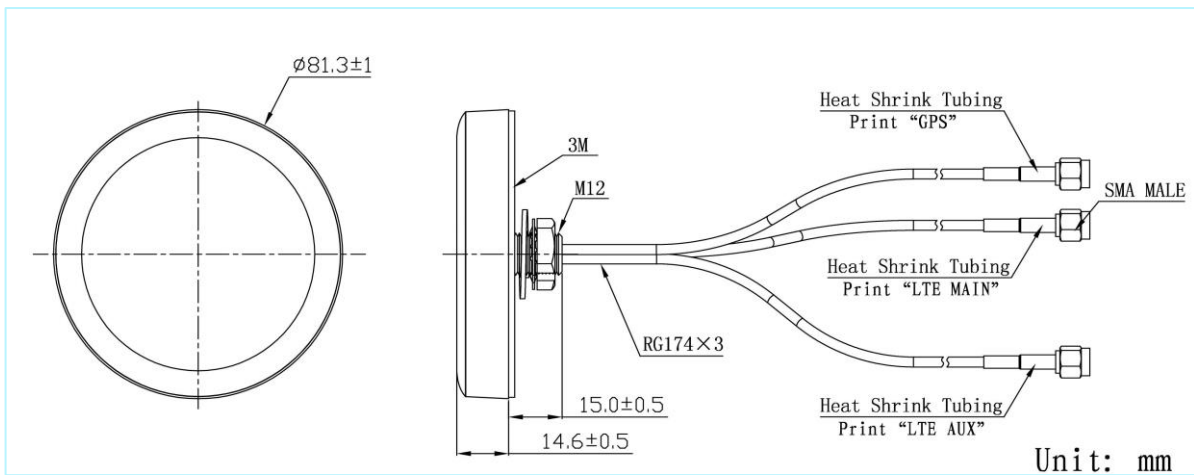


# Maswell GPS+LTE MIMO Combination Antenna

AN\_GPS\_LTE\_MIMO\_046



## Mechanical dimension



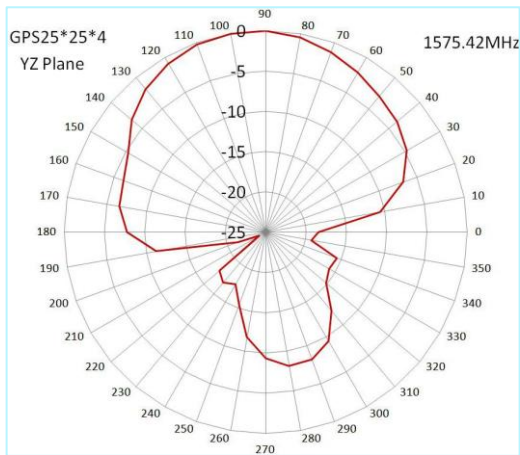
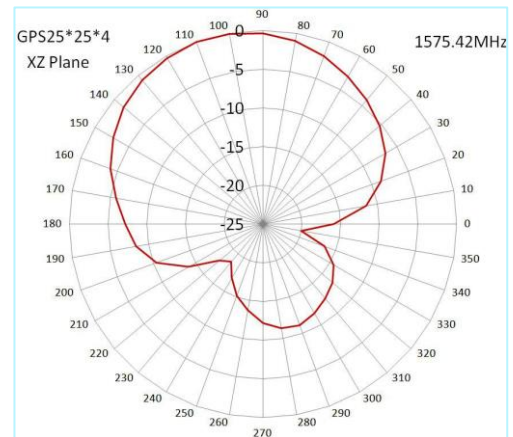
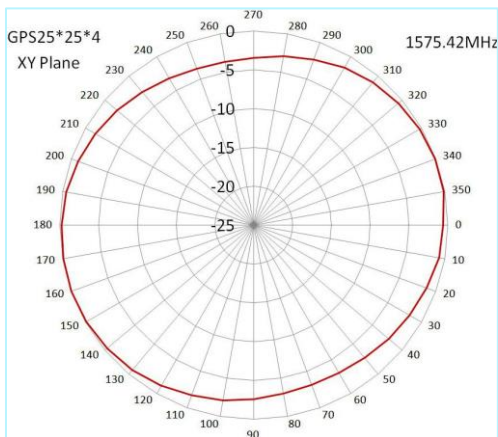
# Maswell GPS+LTE MIMO Combination Antenna

## Specifications

| Item             |                          | Specifications                            |                |
|------------------|--------------------------|---|----------------|
| GPS Antenna      | Dielectric Antenna       | Frequency Range                           | 1575.42±3MHz   |
|                  |                          | Polarization                              | RHCP           |
|                  |                          | Gain                                      | 2dBic (Zenith) |
|                  |                          | V.S.W.R                                   | <1.5           |
|                  |                          | Impedance                                 | 50Ω            |
|                  | LNA                      | Gain                                      | 28±2dB         |
|                  |                          | Noise Figure                              | <2dB           |
|                  |                          | V.S.W.R                                   | <2.0           |
|                  |                          | Supply Voltage                            | 3~5V DC        |
|                  |                          | Current Consumption                       | <20mA          |
| LTE Antenna MAIN | Frequency Range          | 698~960MHz/1710~2690MHz                   |                |
|                  | V.S.W.R                  | <3.0                                      |                |
|                  | Polarization             | Linear                                    |                |
|                  | Gain                     | 2.5dBi (Zenith)                           |                |
|                  | Impedance                | 50Ω                                       |                |
| LTE Antenna AUX  | Frequency Range          | 698~960MHz/1710~2690MHz                   |                |
|                  | V.S.W.R                  | <3.0                                      |                |
|                  | Polarization             | Linear                                    |                |
|                  | Gain                     | 2.0dBi (Zenith)                           |                |
|                  | Impedance                | 50Ω                                       |                |
| Mechanical       | Cable                    | RG174                                     |                |
|                  | Connector                | SMA or others                             |                |
|                  | Material                 | ABS                                       |                |
|                  | Mounting Method          | Screw                                     |                |
| Environmental    | Operating Temperature    | -40°C~+85°C                               |                |
|                  | Relative Humidity        | Up to 95%                                 |                |
|                  | Ingress Protection       | IP67 (exclude cable outlet)               |                |
|                  | Vibration                | 10 to 55Hz with 1.5mm amplitude<br>2hours |                |
|                  | Environmentally Friendly | ROHS Compliant                            |                |

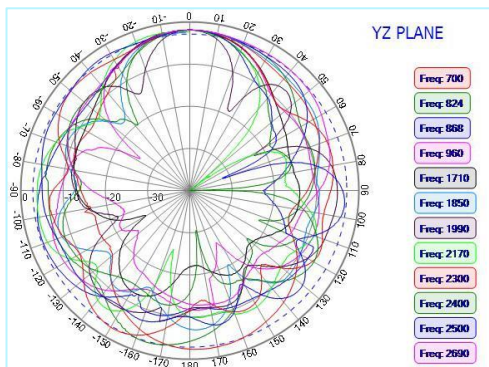
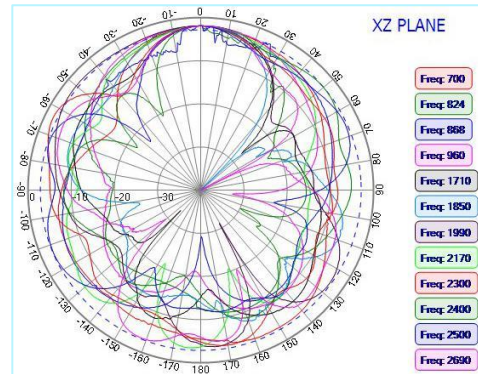
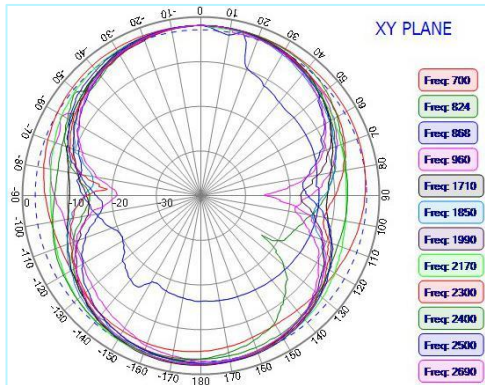
# Maswell GPS+LTE MIMO Combination Antenna Radiation Patterns

## GPS Antenna



# Maswell GPS+LTE MIMO Combination Antenna Radiation Patterns

LTE Antenna MAIN



# Maswell GPS+LTE MIMO Combination Antenna Radiation Patterns

LTE Antenna AUX

