

The **'Mallard'** is a low-profile, multifunction antenna designed for blue-light and amber-light vehicle fleets, combining up to 9 functions within a single panel-mounted unit. With optional fitting kits, the 'Mallard' can be installed using the existing OEM mounting hole, preventing the need to drill additional holes and maintaining OEM functions.

This variant supports 4 Functions including **2x LTE** and **2x WiFi**

## Supplied Coax Extension Cables

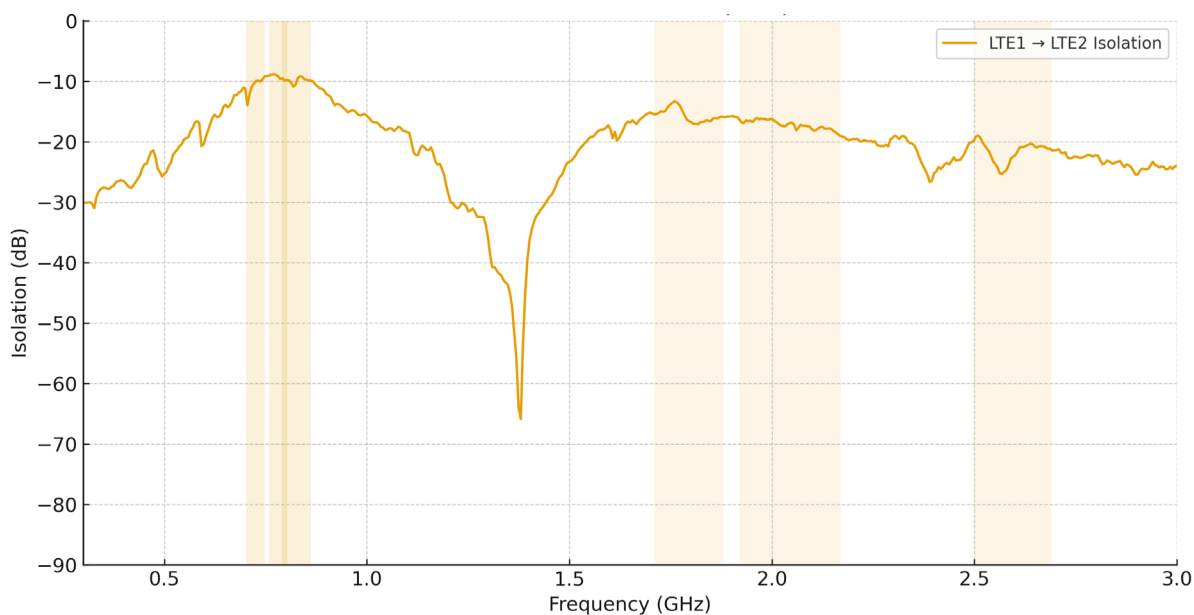
| Coax Cables           | 2x LTE   | 2x Wi-Fi                 |
|-----------------------|----------|--------------------------|
| Cable Type            | SBC240   | SBC240                   |
| length                | 5m or 3m | 5m or 3m                 |
| Diameter (mm)         | 6.1      | 6.1                      |
| Min. Bend Radius (mm) | 30       | 30                       |
| Operating Temp. °C    | -40-80   | -40-80                   |
| Termination           | SMA (m)  | SMA Reverse Polarity (m) |
| Labeling              | LTE      | Wi-Fi                    |

## Technical Specifications

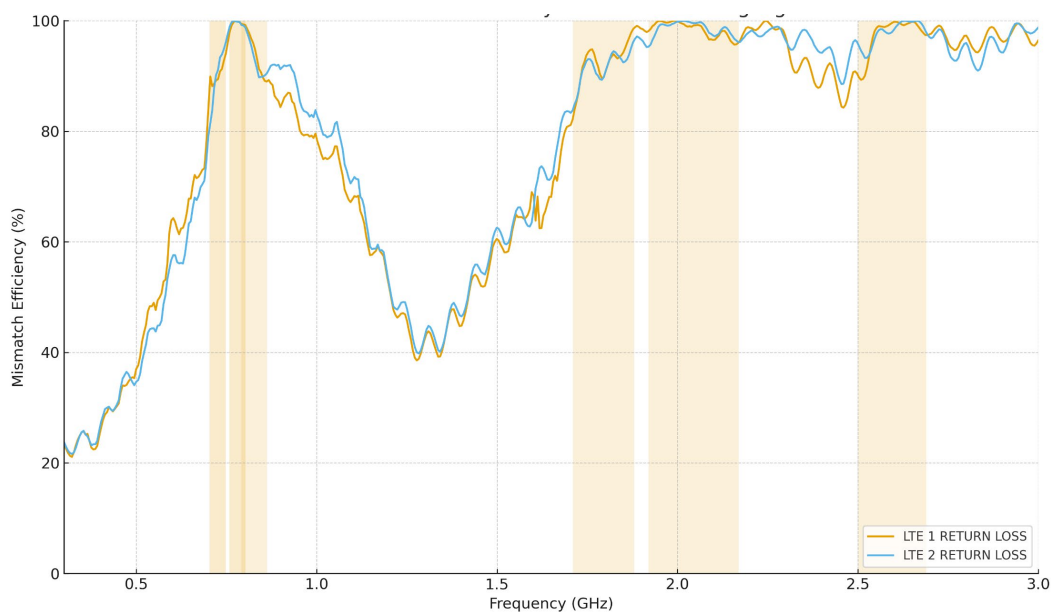
| Part No.                 |                            | 7000-318    |                          |
|--------------------------|----------------------------|-------------|--------------------------|
| Electrical Data          |                            | 2G 3G 4G 5G | Wi-Fi                    |
| Frequency Range (MHz)    | 698-6000 MHz               |             | 2.4 GHz & 5.8GHz         |
| Band                     | 2x2 MiMo 2G 3G 4G 5G       |             | 2x2 MiMo Dual Band Wi-Fi |
| VSWR                     | <2.1:1 TYPICALLY 1.5:1     |             | <2.1:1 TYPICALLY 1.5:1   |
| Gain                     | Minimum 4dBi               |             | Minimum 4dBi             |
| Isolation                | <-25dB                     |             | <-25dB                   |
| Polarisation             | Vertical                   |             | Vertical                 |
| Pattern                  | Omni-directional           |             | Omni-directional         |
| Impedance                | 50Ω                        |             | 50Ω                      |
| Max Power Input (W)      | 10W                        |             | 10W                      |
| Mechanical Data          |                            |             |                          |
| Dimensions (mm)          | H80xW70xL230 *             |             |                          |
| Operating Temp (°C)      | -40 / +80°C (-40° / 176°F) |             |                          |
| Material                 | ABS/PC                     |             |                          |
| Colour                   | Black                      |             |                          |
| Weight (g)               | 310                        |             |                          |
| Ingress Protection       | IP66                       |             |                          |
| Cable Data               |                            |             |                          |
| Cable Type               | RG316                      |             | RG316                    |
| length                   | 160mm                      |             | 200mm                    |
| Diameter                 | 2.8                        |             | 2.8                      |
| Termination              | SMA (f)                    |             | SMA (m) Reverse Polarity |
| Mounting Data            |                            |             |                          |
| Mounting Type            | Panel mount                |             |                          |
| Mounting Hole (mm)       | 15mm                       |             |                          |
| Max Panel Thickness (mm) | 10mm                       |             |                          |

Subject to change without prior notice. \*Excluding external antenna

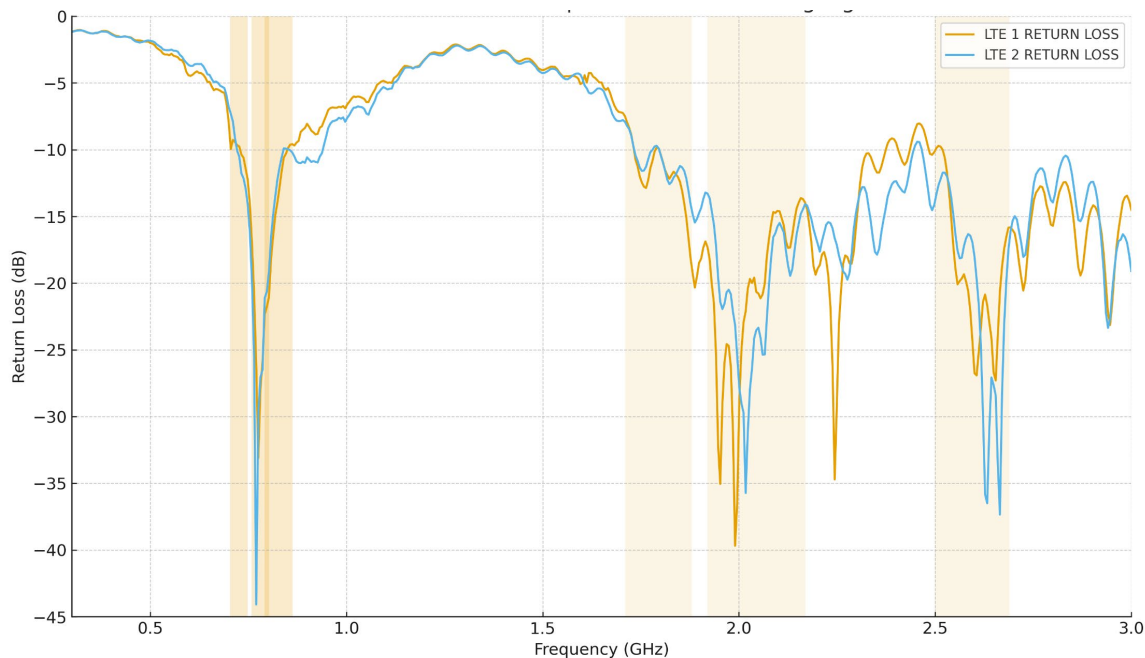
### LTE Isolation



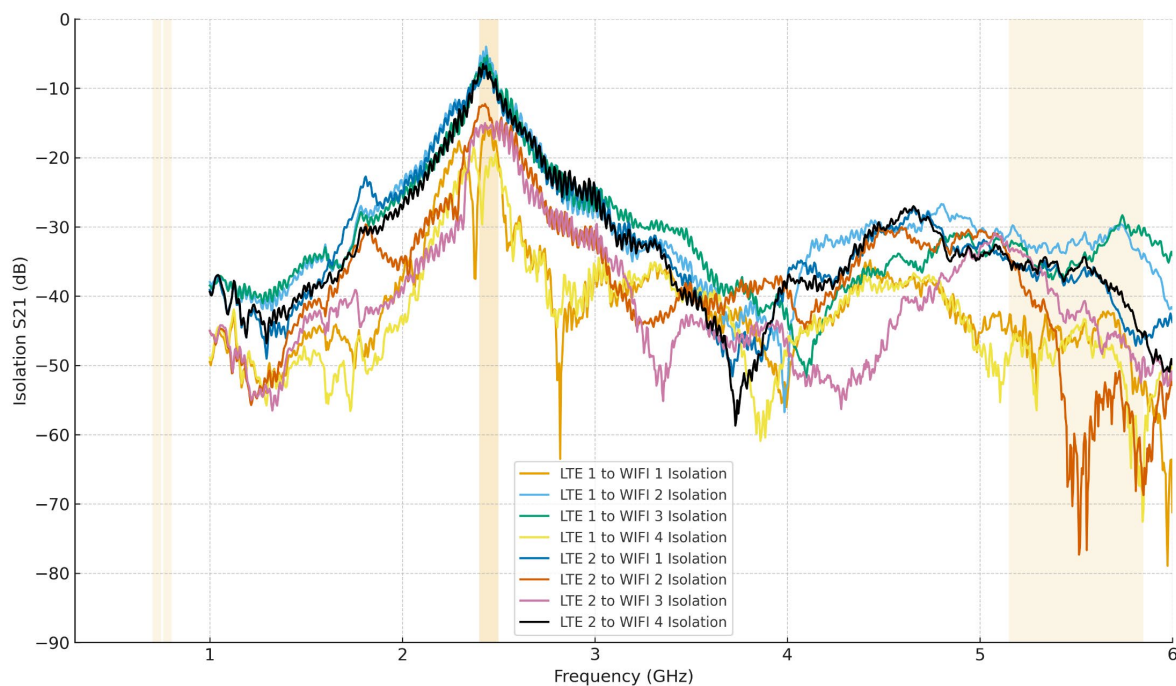
### LTE Port Mismatch Efficiency



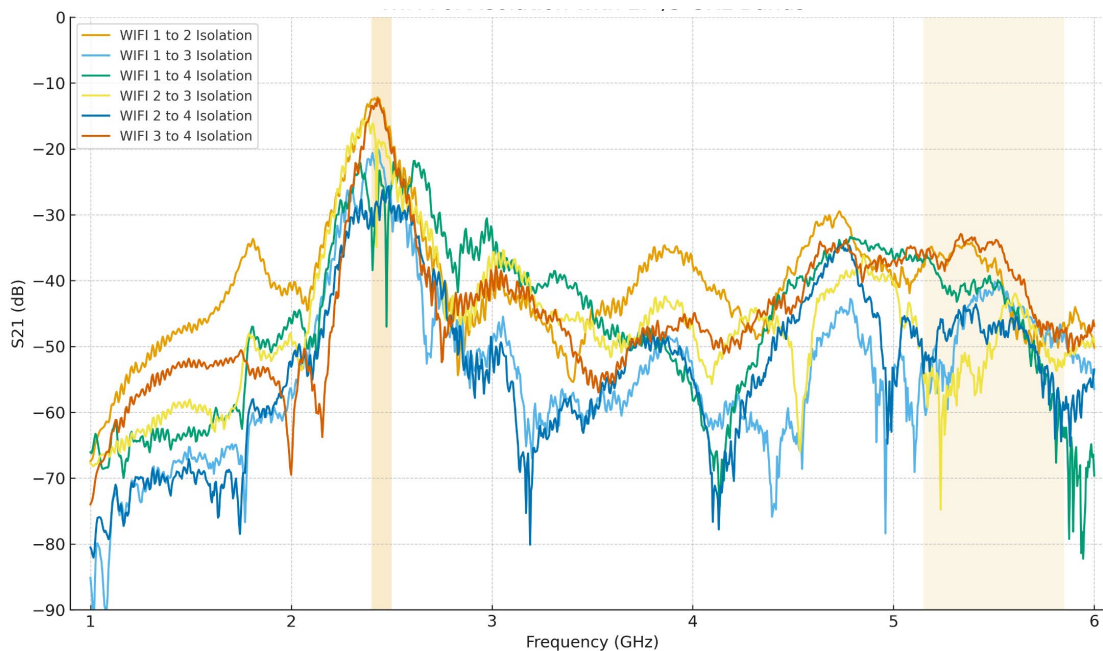
### LTE Return Loss



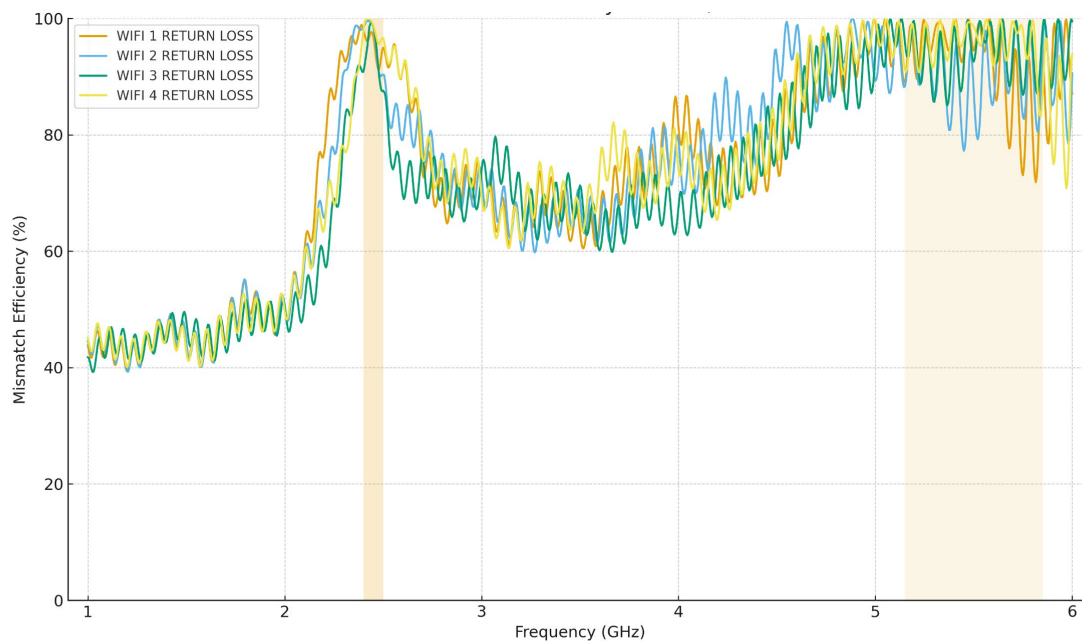
### LTE to Wi-Fi Port Isolation



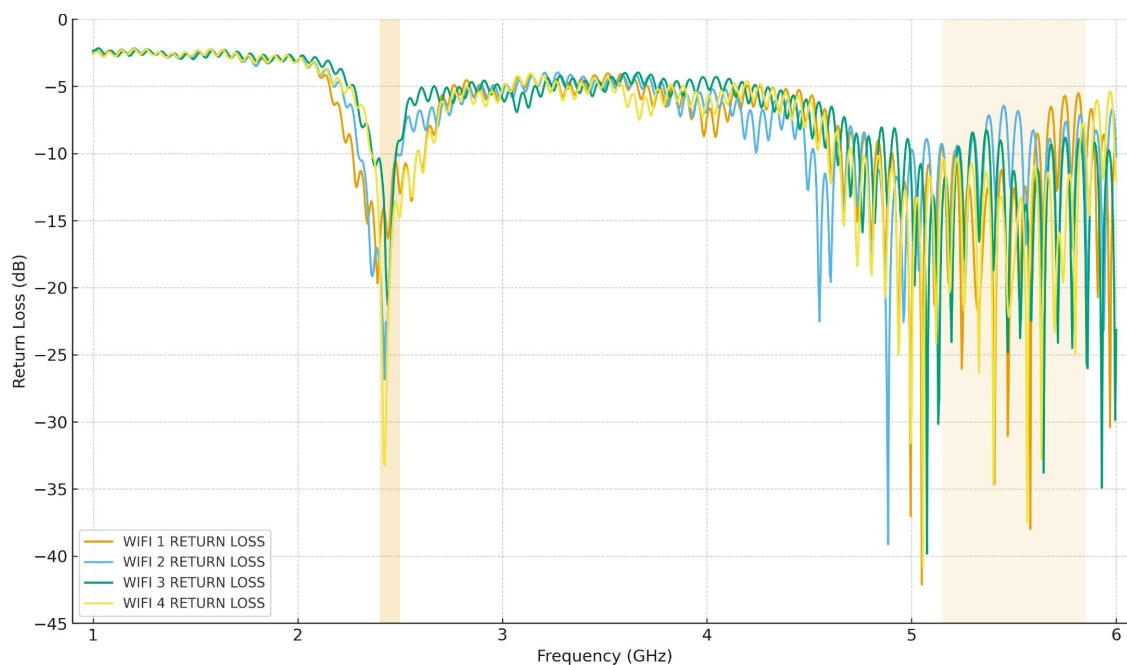
## Wi-Fi Port Isolation



## Wi-Fi Port Mismatch Efficiency

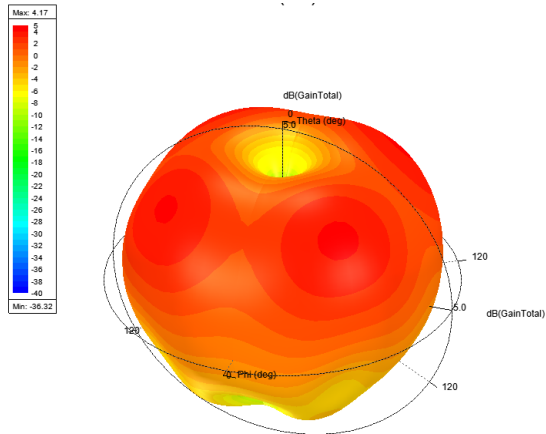


## Wi-Fi Port Return Loss

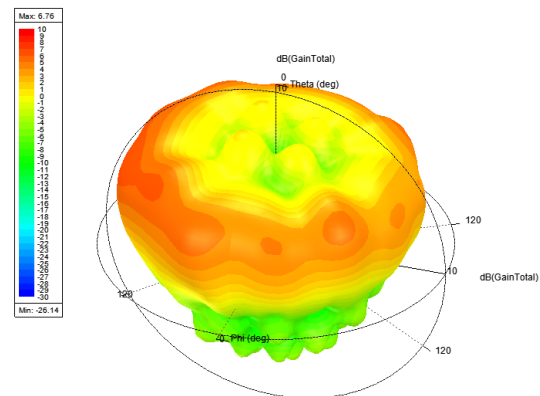


## Antenna 3D Gain Plots

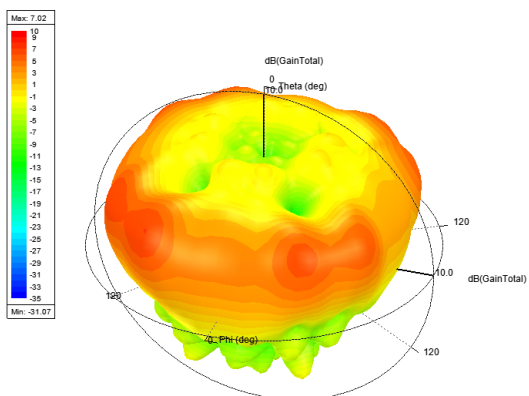
820MHz



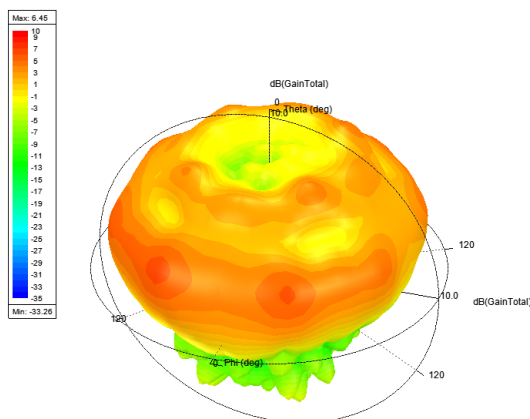
1820MHz



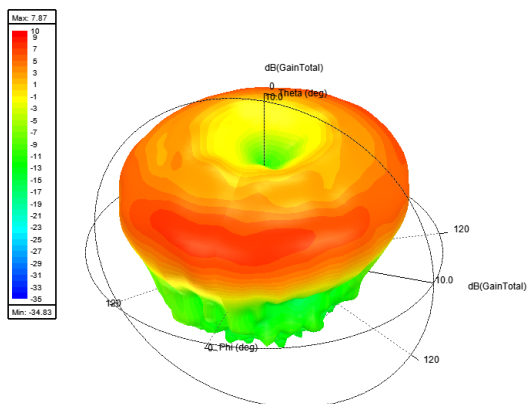
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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