

# SK0200300 'Mallard' 6-in-1 Antenna Black incl. 5m Coax Cables - TETRA

**5 YEARS WARRANTY**



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 **6 Functions** including **TETRA, 4x WiFi and 1x GPS**

**Also Available in White: Part No. SK0200360**



**Part No.**  
**SK010066**

**Cable Kit Options**

Product Kit : Mallard 6m Cable Kit : Generic : 2x LTE Modem 5x Cables

Additional options available upon request.

A brand of



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## Technical Specifications

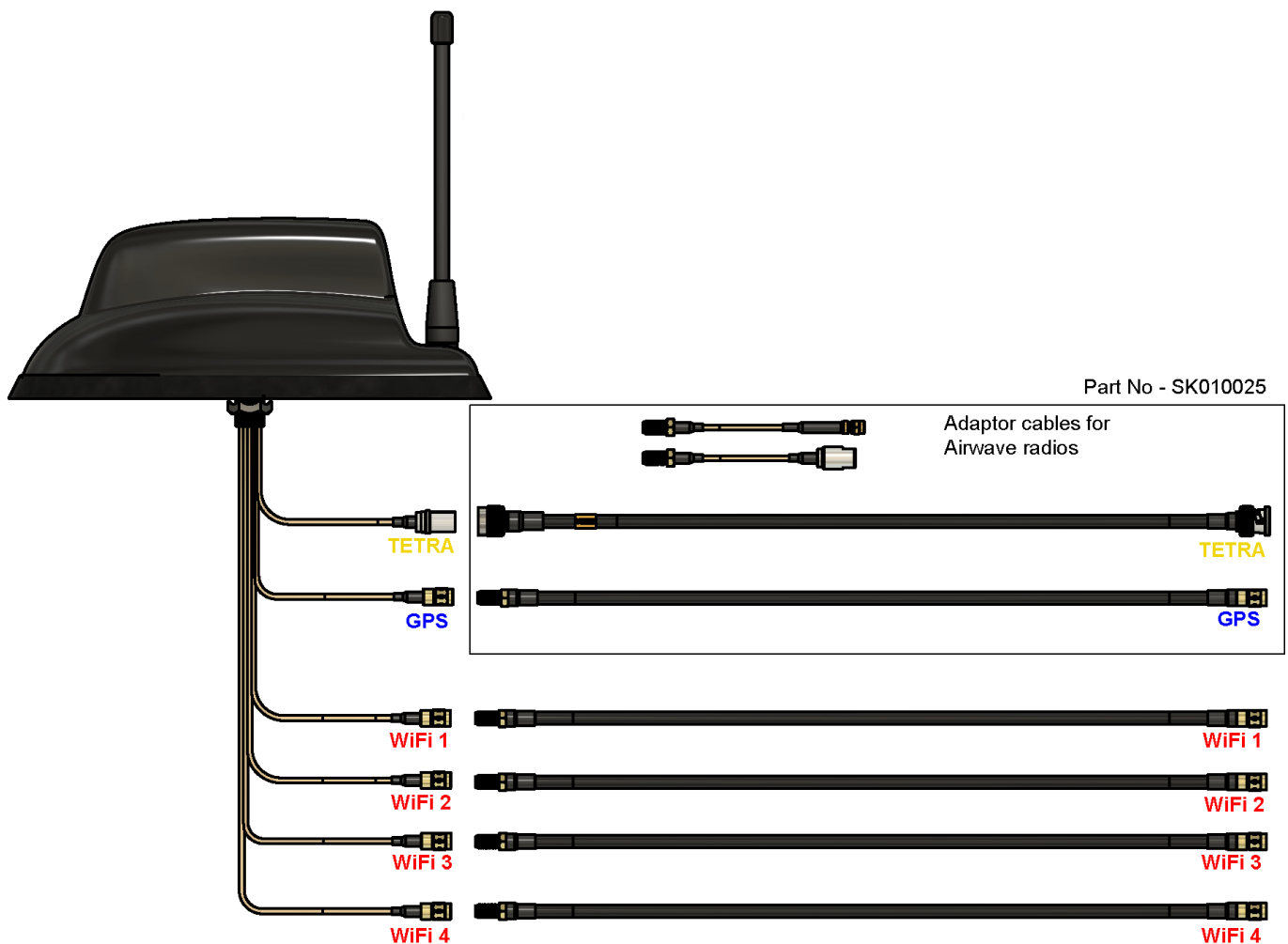
| Part No.                 | SK0200300                            |                          |
|--------------------------|--------------------------------------|--------------------------|
| Electrical Data          | TETRA                                | Wi-Fi                    |
| Frequency Range (MHz)    | 380 - 430 MHz                        | 2.4 GHz & 5.8GHz         |
| Band                     | TETRA                                | 4x4 MiMo Dual Band Wi-Fi |
| VSWR                     | <2.1:1 TYPICALLY 1.5:1               | <2.1:1 TYPICALLY 1.5:1   |
| Gain                     | 5dBi                                 | Minimum 4dBi             |
| Isolation                | -                                    | <-25dB                   |
| Polarisation             | Vertical                             | Vertical                 |
| Pattern                  | Omni-directional                     | Omni-directional         |
| Impedance                | 50Ω                                  | 50Ω                      |
| Max Power Input (W)      | 25W                                  | 10W                      |
| GPS/GLONASS              |                                      |                          |
| Frequency Range (MHz)    | 1562-1612                            |                          |
| VSWR                     | <2:1                                 |                          |
| Gain                     | 26dB                                 |                          |
| Polarisation             | Right Hand Circular                  |                          |
| Operating Voltage        | 3-5v DC (fed via coax)               |                          |
| Cable                    | 2x 230mm RG316 Terminated to SMA (m) |                          |
| 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                   | 280mm                                | 200mm                    |
| Diameter                 | 2.8                                  | 2.8                      |
| Termination              | TNC (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

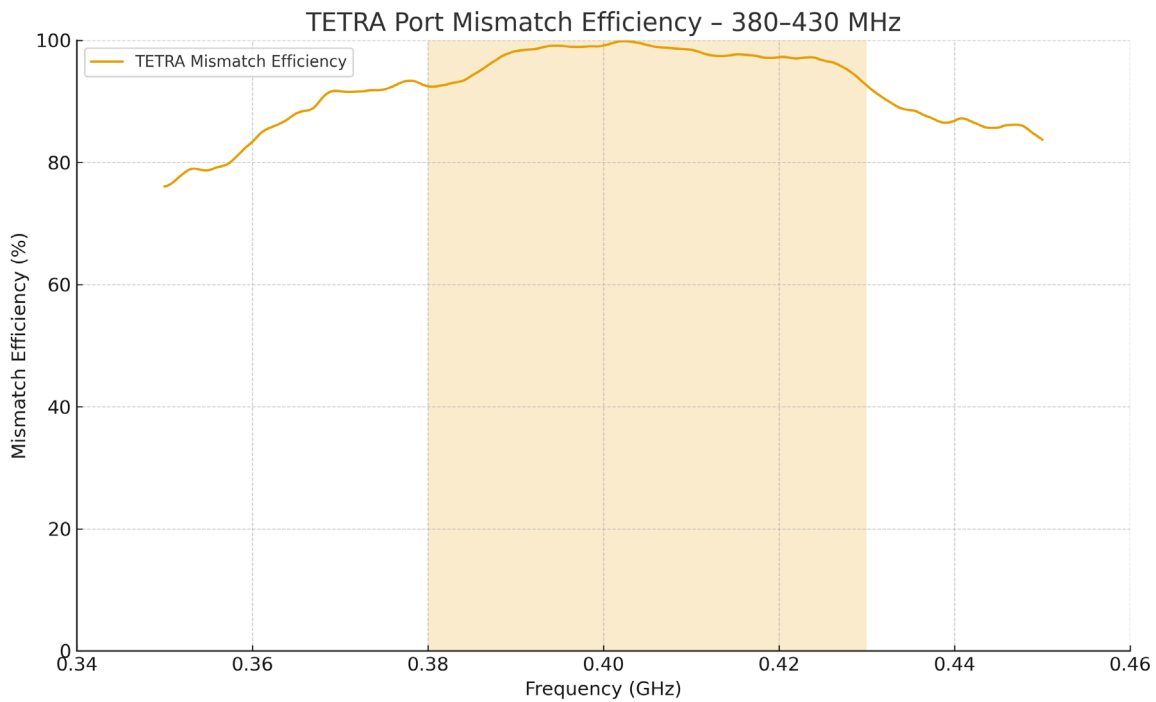
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## Supplied Coax Extension Cables

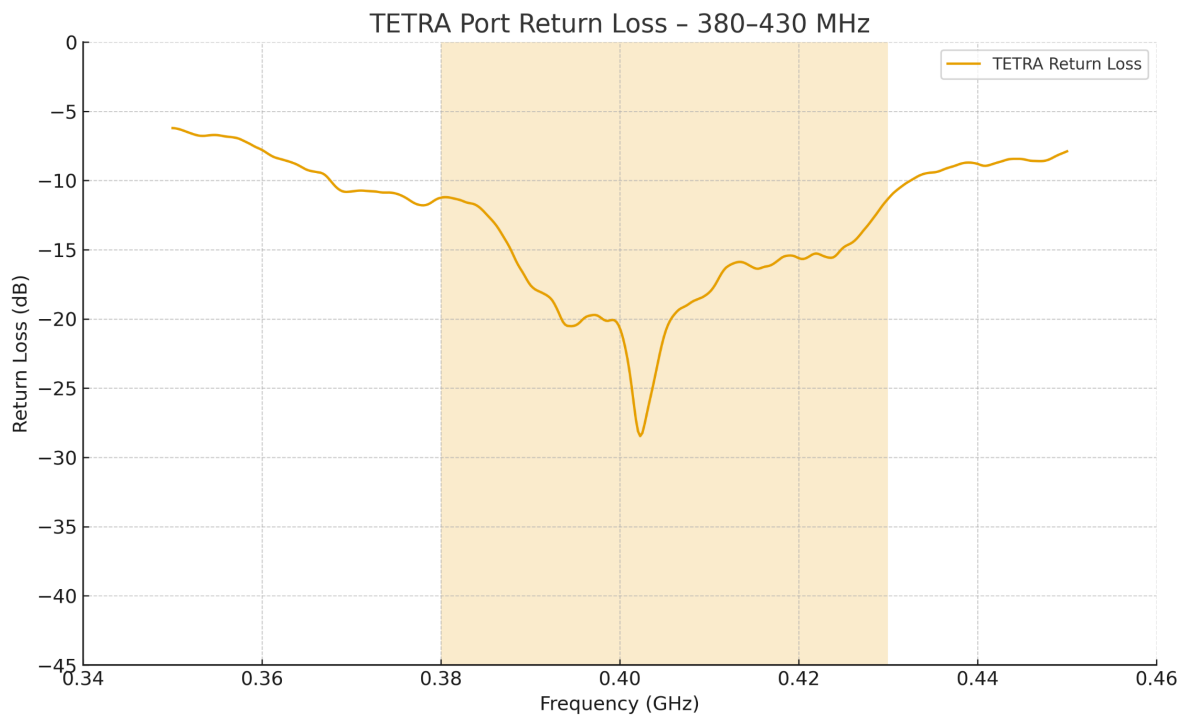
| Coax Cables           | 4x Wi-Fi                 | 1x TETRA | 1x GPS                                           |
|-----------------------|--------------------------|----------|--------------------------------------------------|
| Cable Type            | SBC240                   | SBC195   | SBC100                                           |
| length                | 5m or 3m                 | 5m or 3m | 5m or 3m                                         |
| Diameter (mm)         | 6.1                      | 4.95     | 2.8                                              |
| Min. Bend Radius (mm) | 30                       | 25       | 14                                               |
| Operating Temp. °C    | -40-80                   | -40-80   | -40-80                                           |
| Termination           | SMA Reverse Polarity (m) | BNC (m)  | SMA (m) – Motorola and Sepura adaptors supplied. |
| Labeling              | Wi-Fi M & Wi-Fi A        | TETRA    | GPS TETRA                                        |



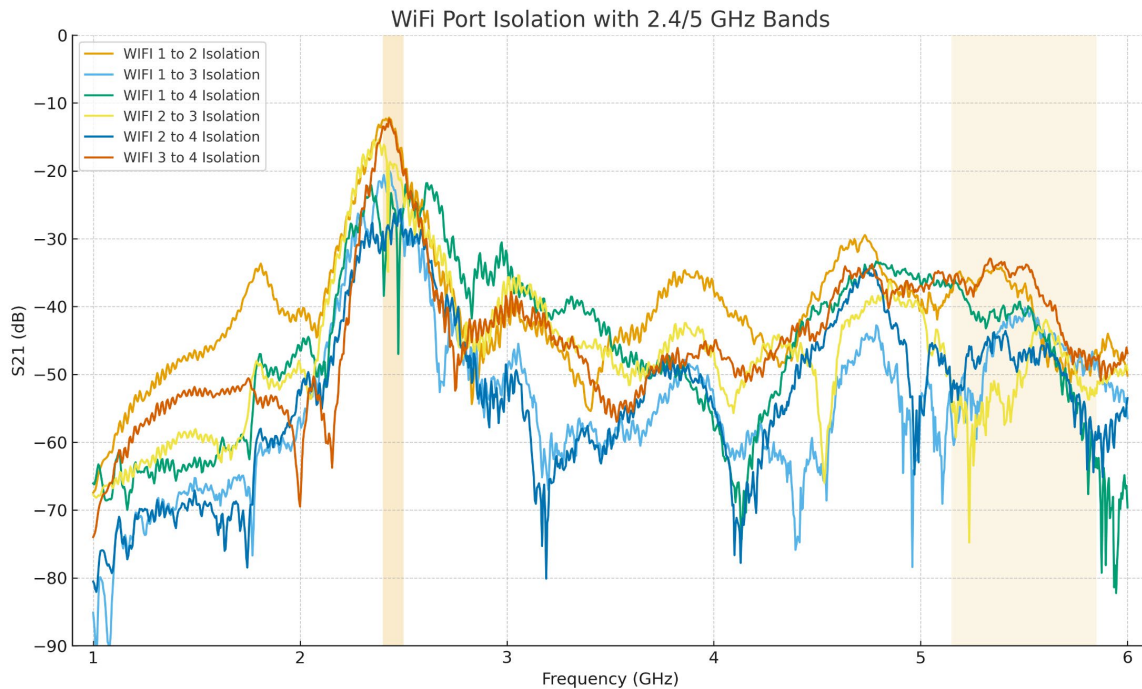
### TETRA Port Mismatch Efficiency



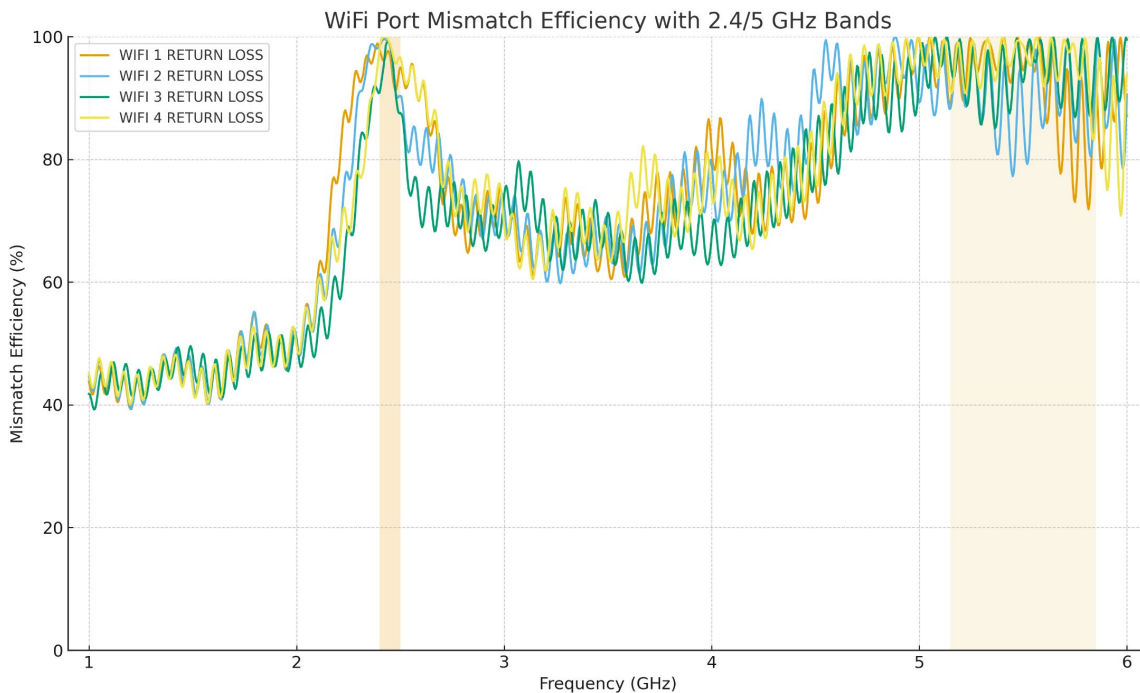
### TETRA Port Return Loss



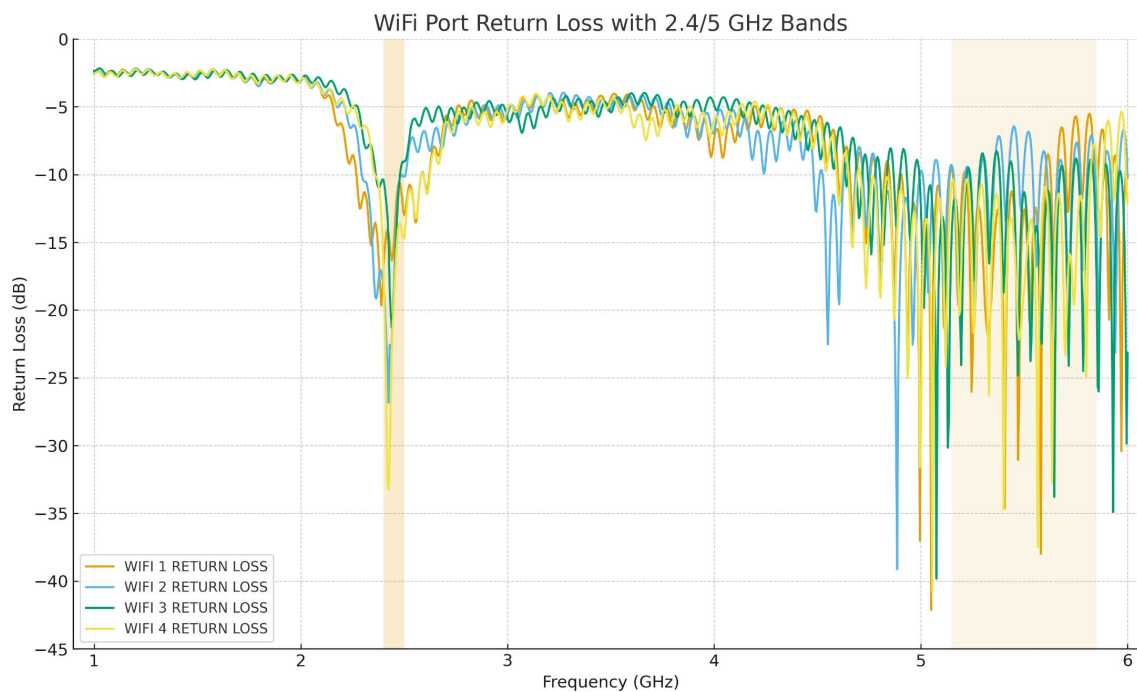
## Wi-Fi Port Isolation



## Wi-Fi Port Mismatch Efficiency



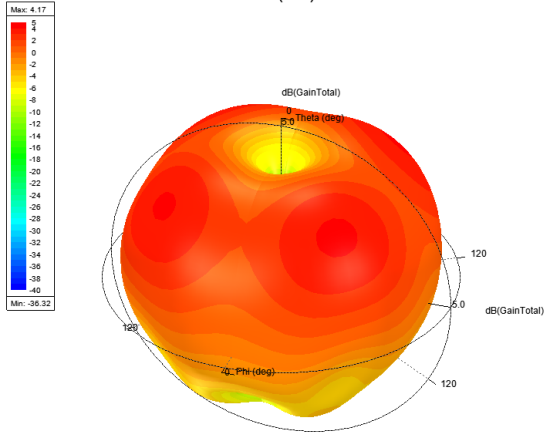
## Wi-Fi Port Return Loss



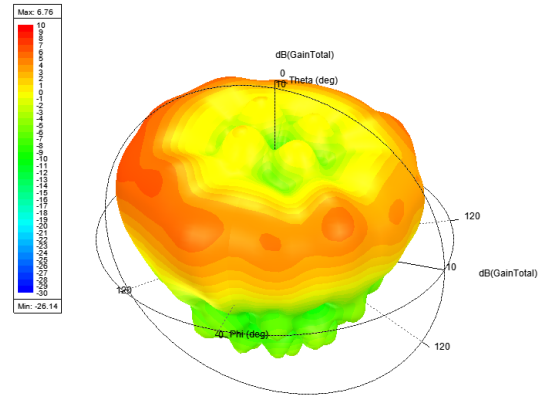
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## Antenna 3D Gain Plots

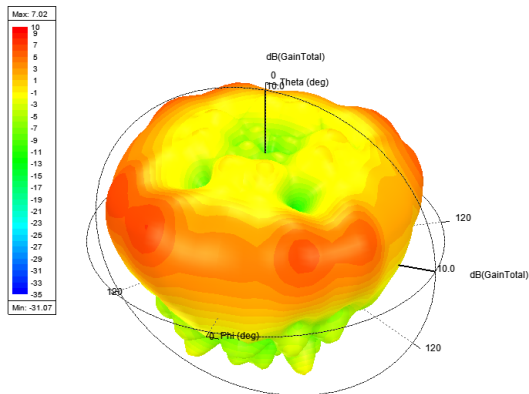
820MHz



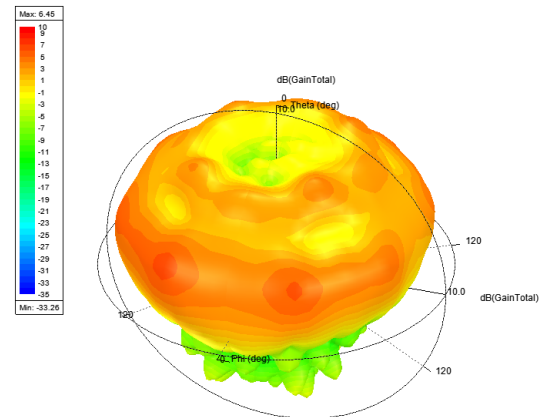
1820MHz



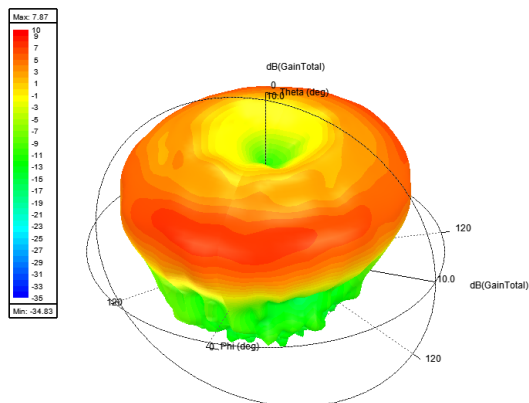
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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