

**5 YEARS WARRANTY**



The 'Mallard' is a low-profile, multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 9 functions** within a single, panel-mounted unit. This variant incorporates **3 functions**.

With market leading isolation to **support ESN**, as well as your current **TETRA radio**, there is no need to drill multiple holes into your vehicle's roof due to **additional fitting kit options**.

The 'Mallard' supports **2x2 MiMo from 698MHz to 6GHz** with a minimum **4dBi gain** across the whole band. With the additional functionality of a **GPS/GNSS Port** and **TETRA**, this antenna would be an ideal solution for future proofing your new vehicle installations for **ESN**.

With a single hole installation and a **wide frequency bandwidth** on offer, the 'Mallard' would help **reduce installation costs** and protect your vehicles resale value. For **other available cable options**, please contact us.

### Optional Coax Extension Cables

Also Available in White: Part No. 7000-213



Coax Cables	1x LTE	1x GPS	1x TETRA
Cable Type	SBC240	SBC100	SBC195
Length	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	2.8	4.95
Min. Bend Radius (mm)	30	14	25
Operating Temp. °C	-40-80	-40-80	-40-80
Termination	SMA (f)*	SMA (m)*	TNC (f)*
Labeling	LTE	GPS	TETRA

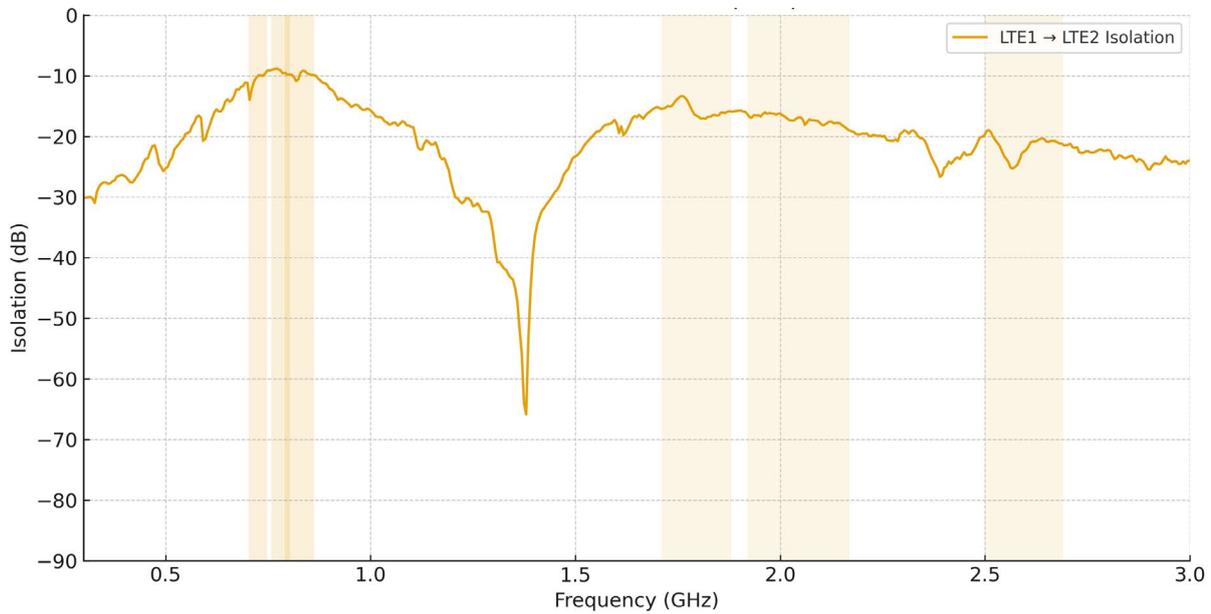
\*Can be terminated to your connector requirements.

Technical Specifications

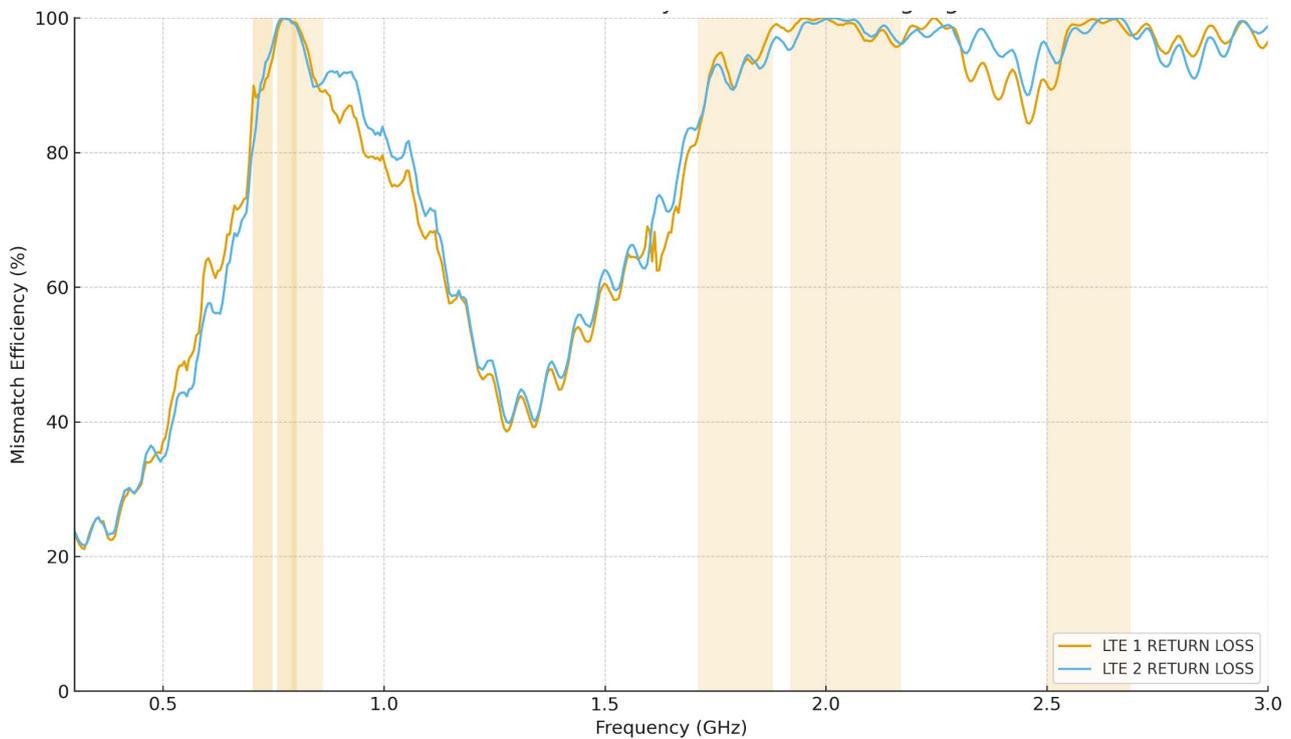
Part No.	7000-303	
Electrical Data	TETRA	2G 3G 4G 5G
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz
Band	TETRA	2x2 MiMo 2G 3G 4G 5G
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi	Minimum 4dBi
Isolation	-	<-25dB
Polarisation	Vertical	Vertical
Pattern	Omni-directional	Omni-directional
Impedance	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	160mm
Diameter	2.8	2.8
Termination	TNC (f)	SMA (f)
Mounting Data		
Mounting Type	Panel mount	
Mounting Hole (mm)	15mm	
Max Panel Thickness (mm)	10mm	

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

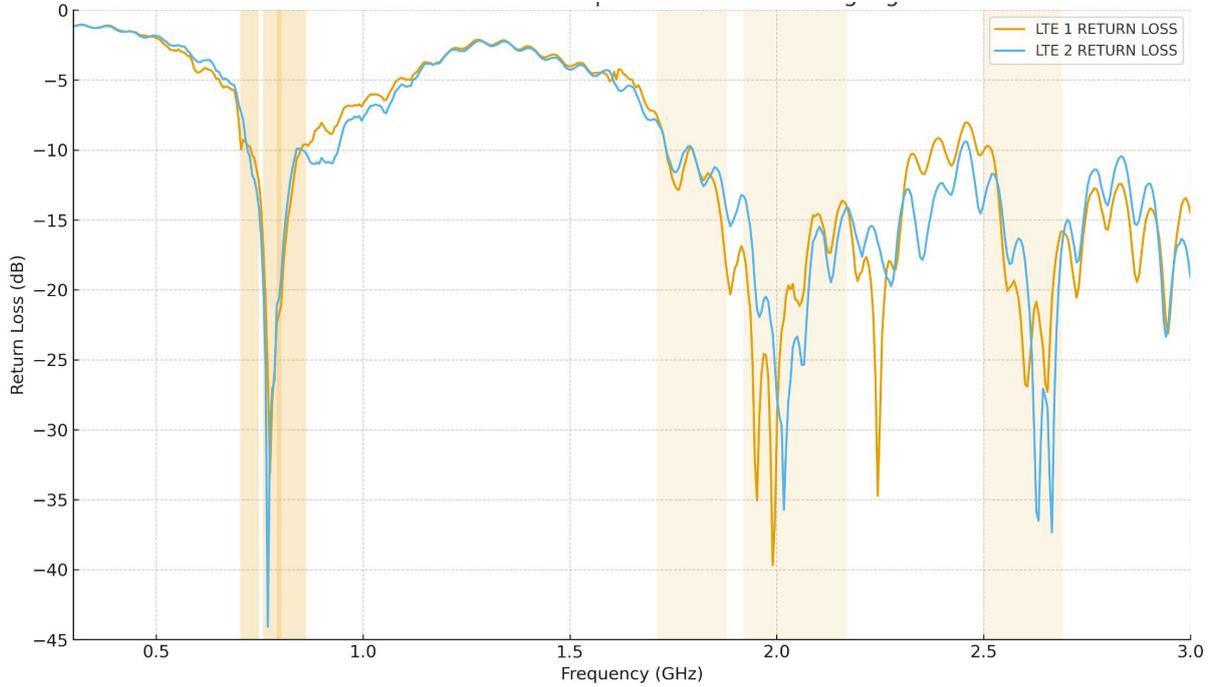
### LTE Isolation



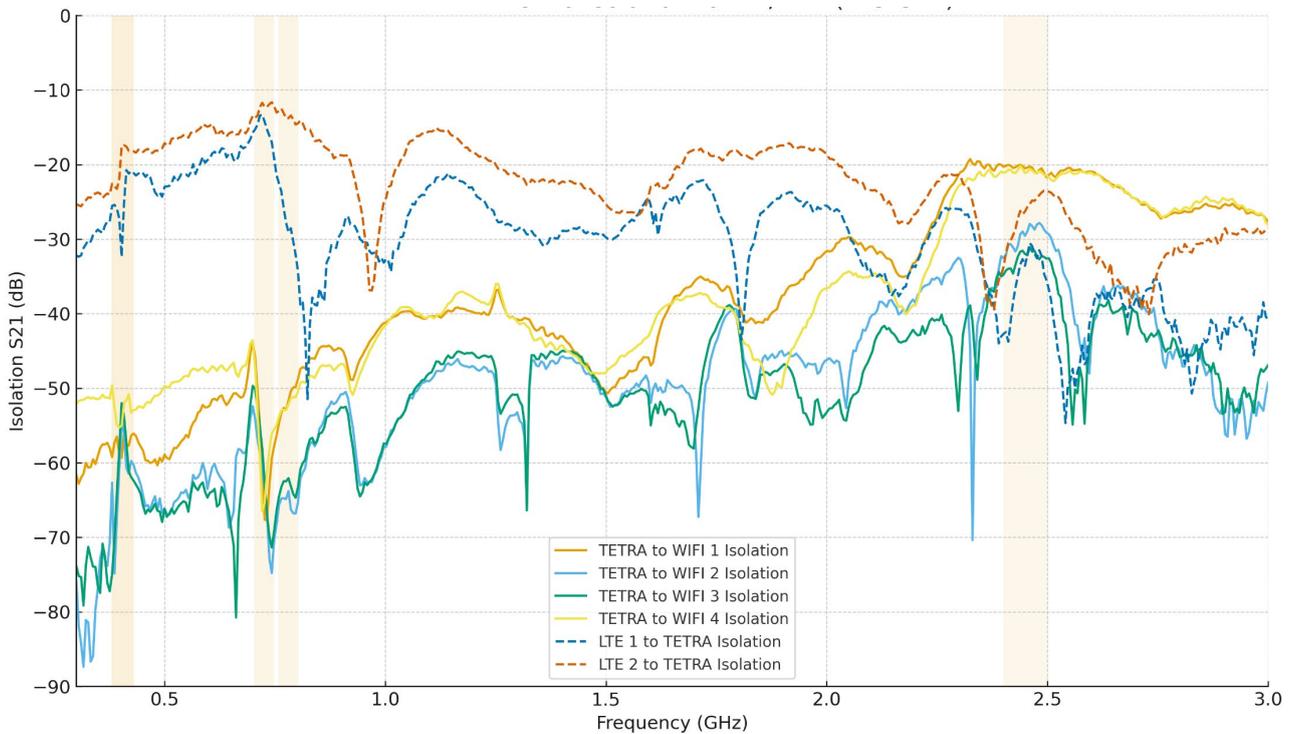
### LTE Port Mismatch Efficiency



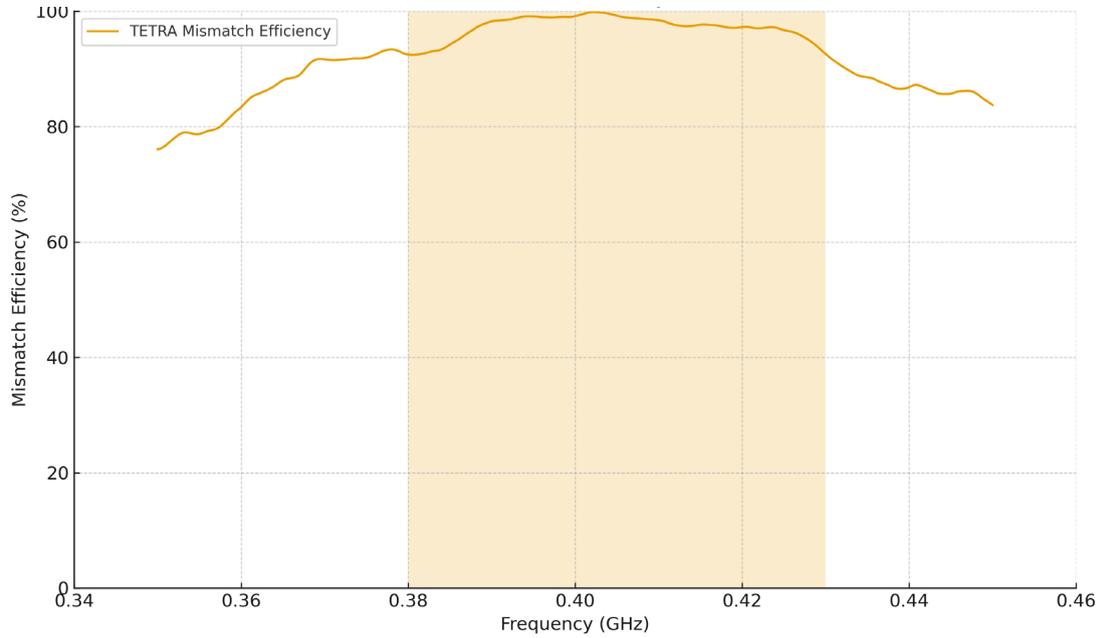
LTE Return Loss



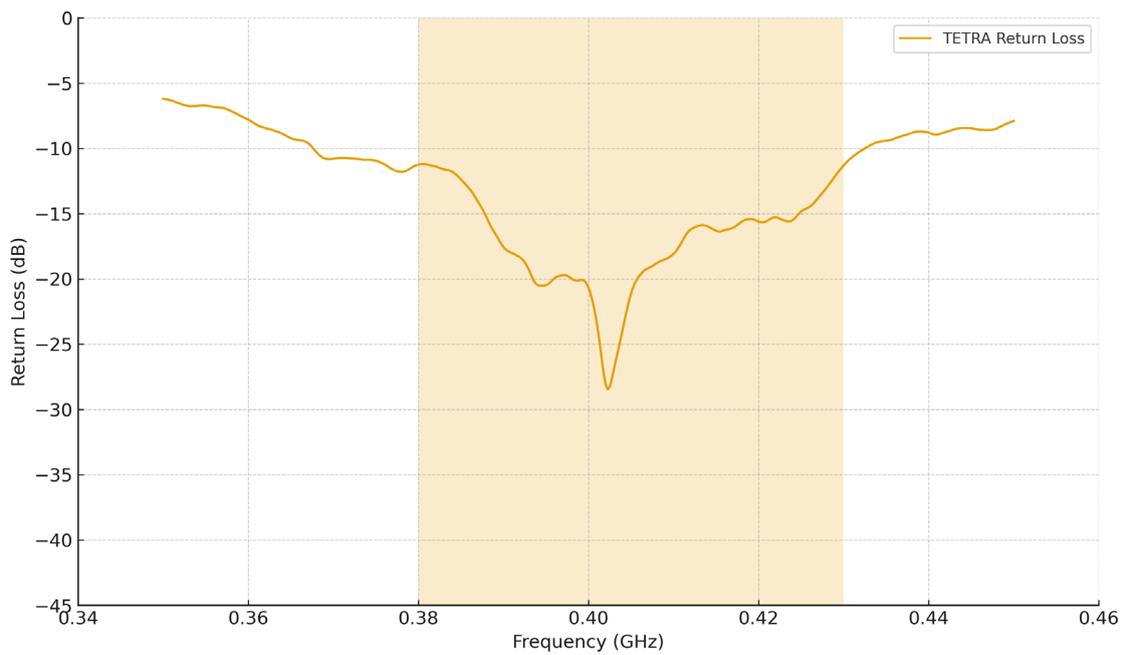
TETRA to LTE/Wi-Fi Isolation



### TETRA Port Mismatch Efficiency

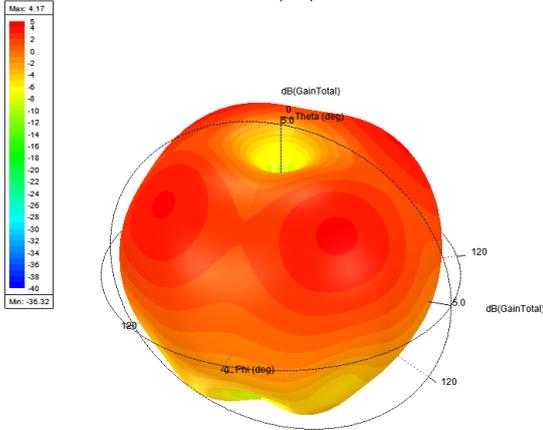


### TETRA Port Return Loss

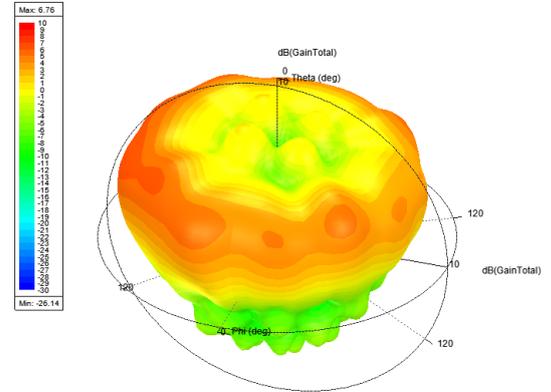


## Antenna 3D Gain Plots

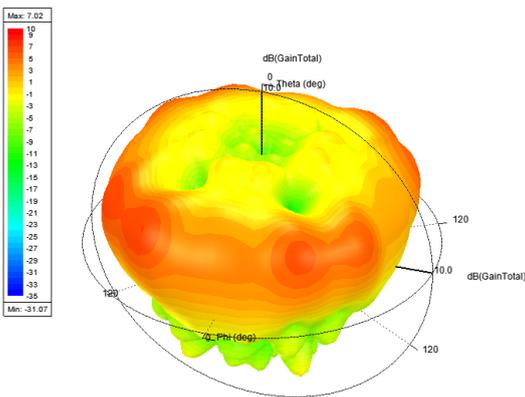
### 820MHz



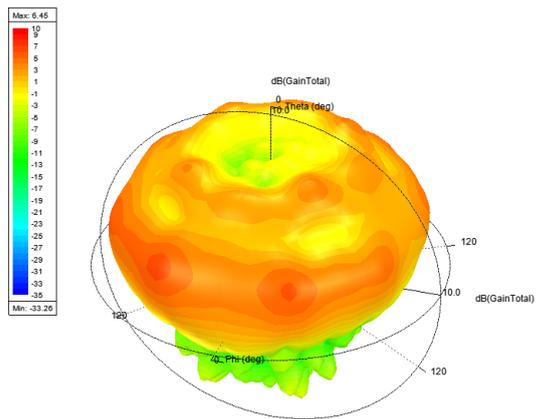
### 1820MHz



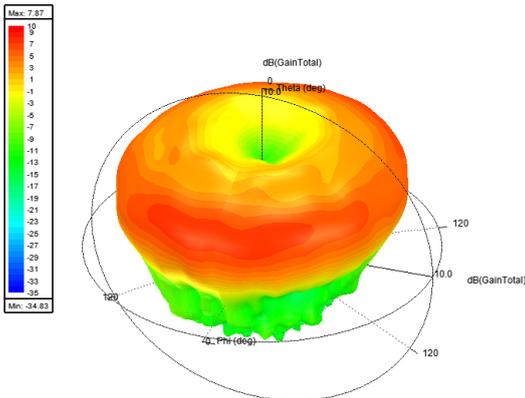
### 2140MHz



### 2600MHz



### 3600MHz



All graphs & diagrams subject to change without prior notice

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