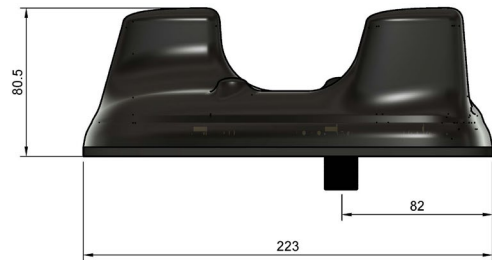


8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

5 YEARS WARRANTY



The 'Sandcastle' is a low-profile, multifunction antenna designed for blue-light and amber-light vehicle fleets, combining up to 18 functions within a single panel-mounted unit. With optional fitting kits, the 'Sandcastle' can be installed using the existing OEM mounting hole, preventing the need to drill additional holes and maintaining OEM functions.

This variant supports **15 Functions** including **TETRA, 4x LTE, 6x WiFi and 4x GPS**

The Sandcastle portfolio includes variants that are **ESN-ready** and fully compatible with **current Airwave system**, making it ideal for future proofing your fleet for the upcoming transition to LTE.

Supplied Coax Extension Cables

Coax Cables	4x LTE	6x Wi-Fi	4x GPS	1x TETRA
Cable Type	SBC240	SBC240	SBC100	SBC195
Cable length	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95
Min. Bend Radius (mm)	30	30	14	25
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)	BNC (m)
Labeling	LTE M & LTE A	Wi-Fi M & Wi-Fi A	GPS	TETRA

Technical Specifications

Part No.

8000-320

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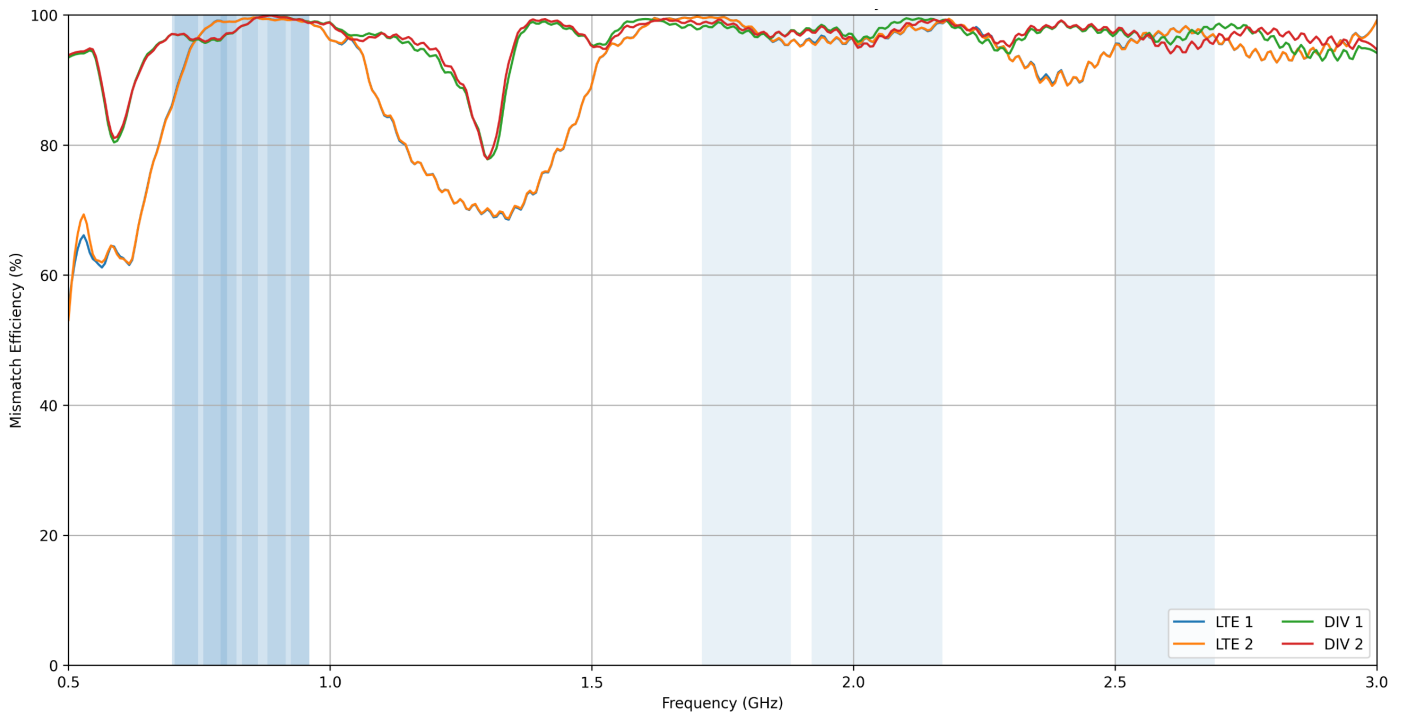
8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

Electrical Data		TETRA	LTE	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz		698-6000 MHz	2.4 GHz & 5.8GHz
Band	TETRA		Wideband LTE 4x4 MiMo	Dual Band Wi-Fi 6x6 MiMo
VSWR	<2.1:1 TYPICALLY 1.5:1		<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi		Minimum 4dBi*	Minimum 4dBi
Isolation	-		<-25dB	<-25dB
Polarisation	Vertical		Vertical	Vertical
Pattern	Omni-directional		Omni-directional	Omni-directional
Impedance	50Ω		50Ω	50Ω
Max Power Input (W)	25W		10W	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, each port is DC isolated)			
Cable	2x RG316 Terminated to SMA (m)			
Mechanical Data				
Dimensions (mm)	H76 x W197 x L227 **			
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)			
Material	ABS			
Colour	Black			
Weight (g)	600			
Cable Data				
Cable Type	RG316		RG316	RG316
length (mm)	300		300	300
Diameter	2.8		2.8	2.8
Termination	TNC (f)		SMA (f)	SMA (m) Reverse Polarity
Mounting Data				
Mounting Type	Panel mount with adhesive pad			
Mounting Hole (mm)	19mm			

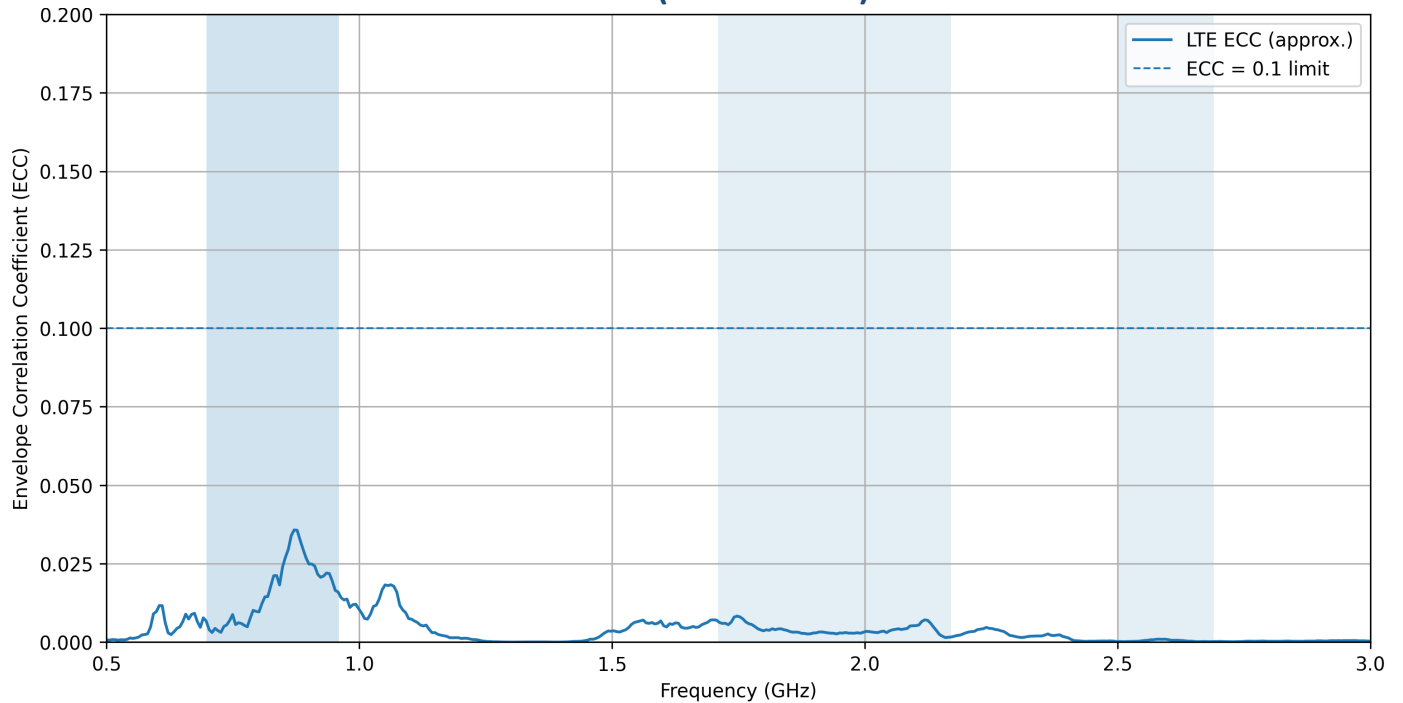
Subject to change. *Ground plane dependent **Excluding optional whip.

8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

LTE / DIV Ports – Mismatch Efficiency



LTE ECC (Cut at 3 GHz)



Subject to change without prior notice.

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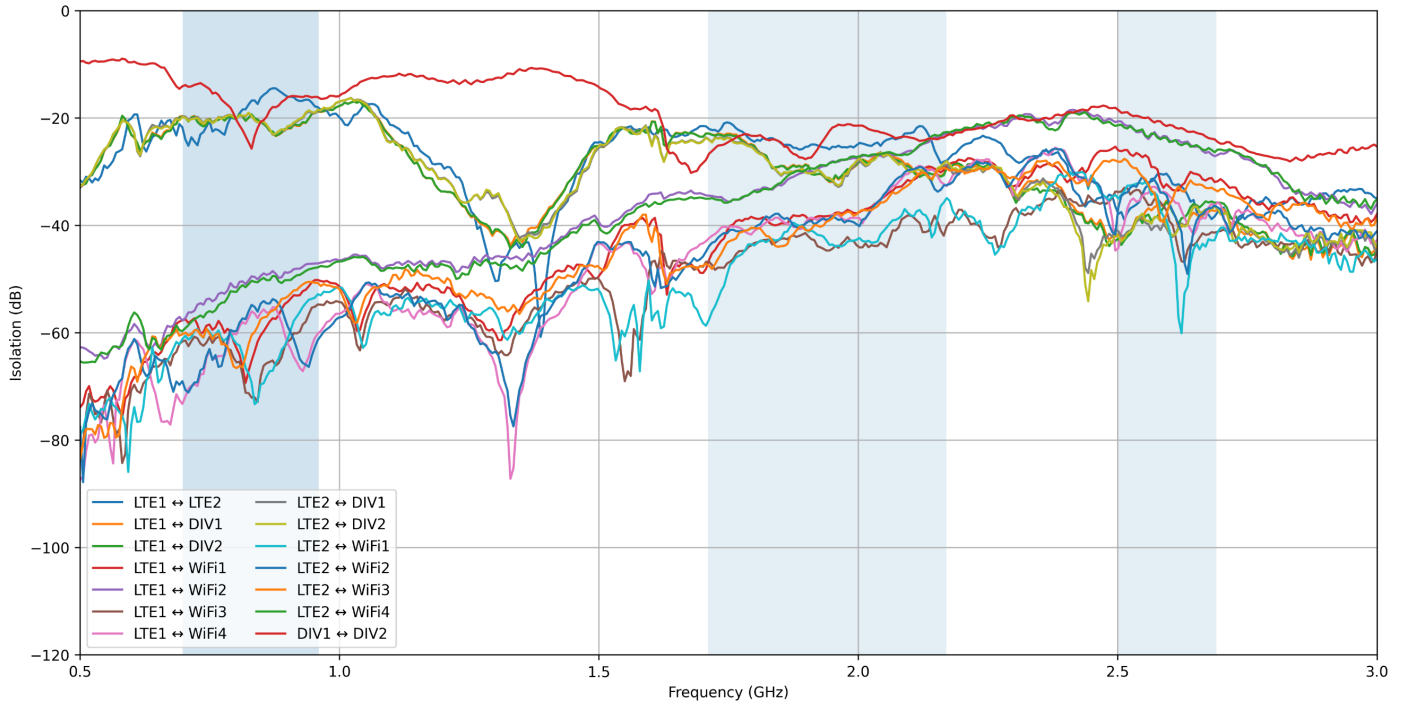


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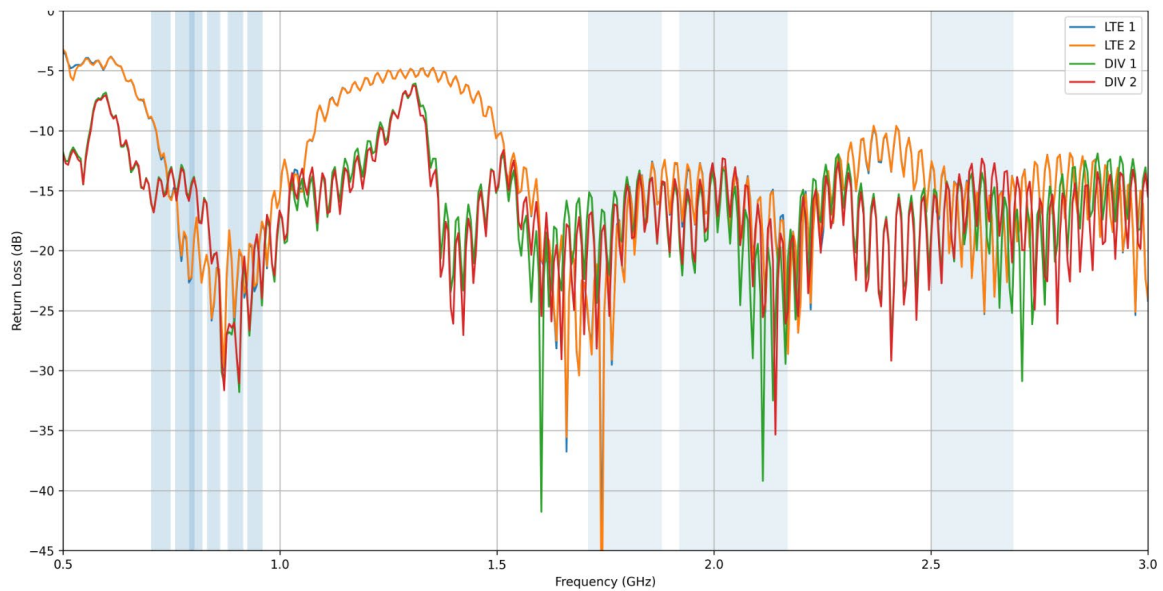


8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

LTE Port Isolation (Cut at 3 GHz)



LTE Return Loss



Subject to change without prior notice.

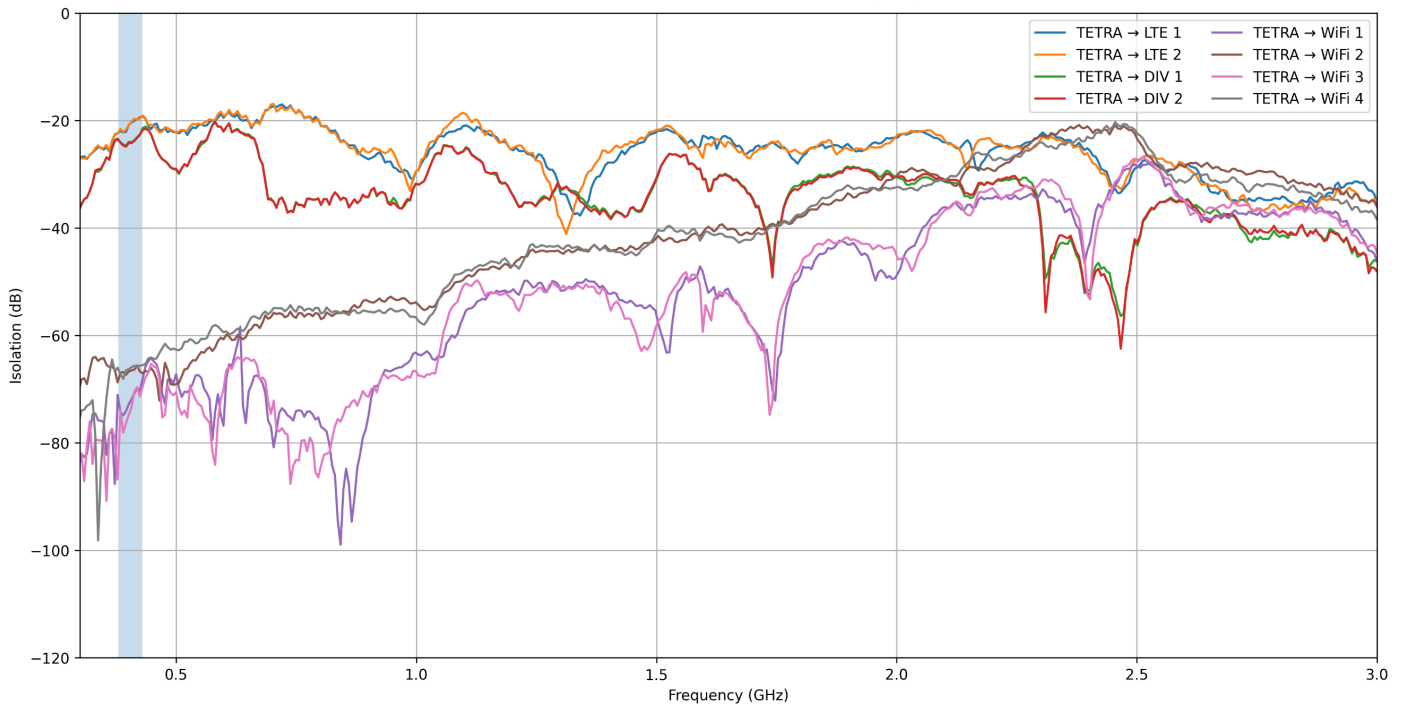
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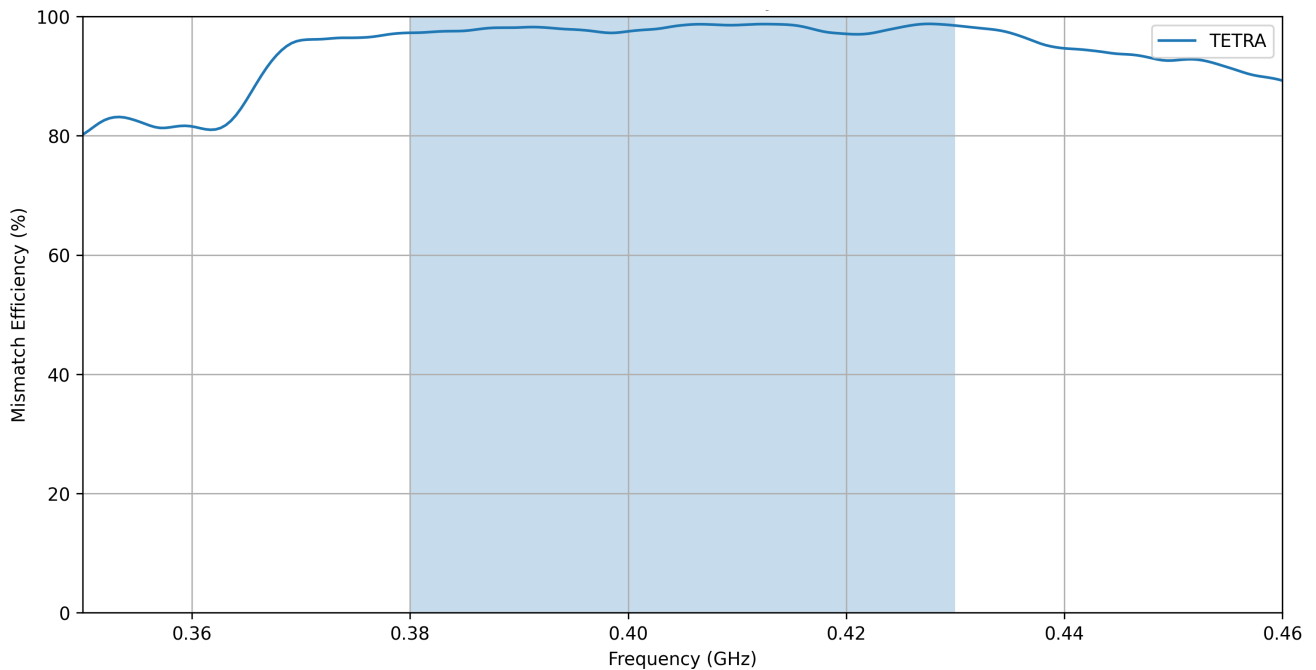
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8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

TETRA Port Isolation to All Other Parts (S21)

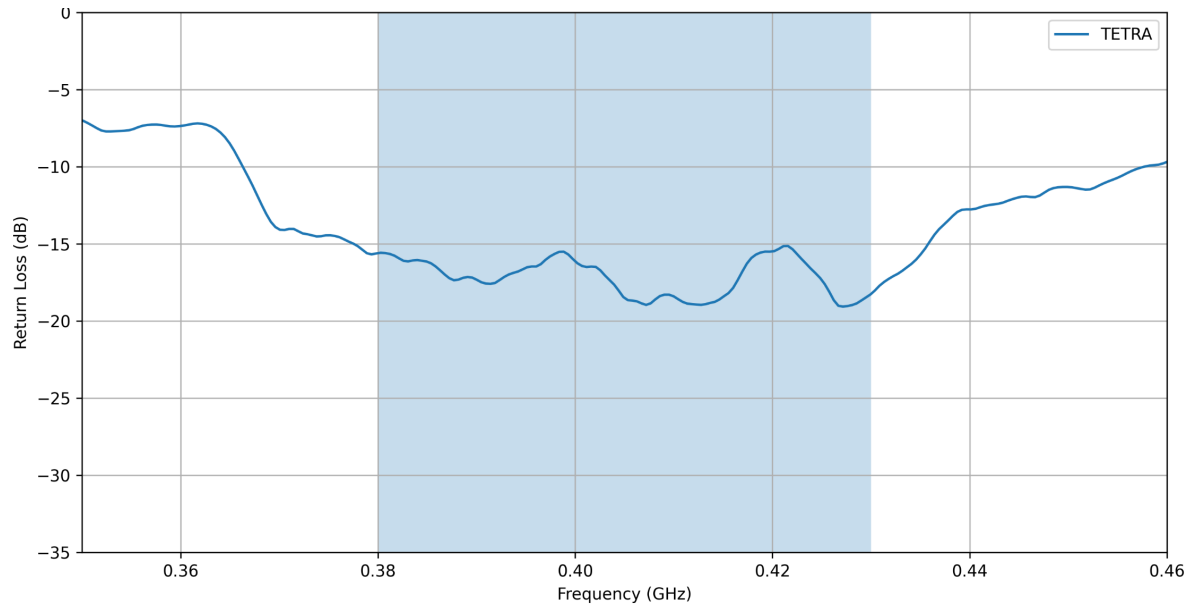


TETRA Port -Mismatch Efficiency (380-430 MHz)

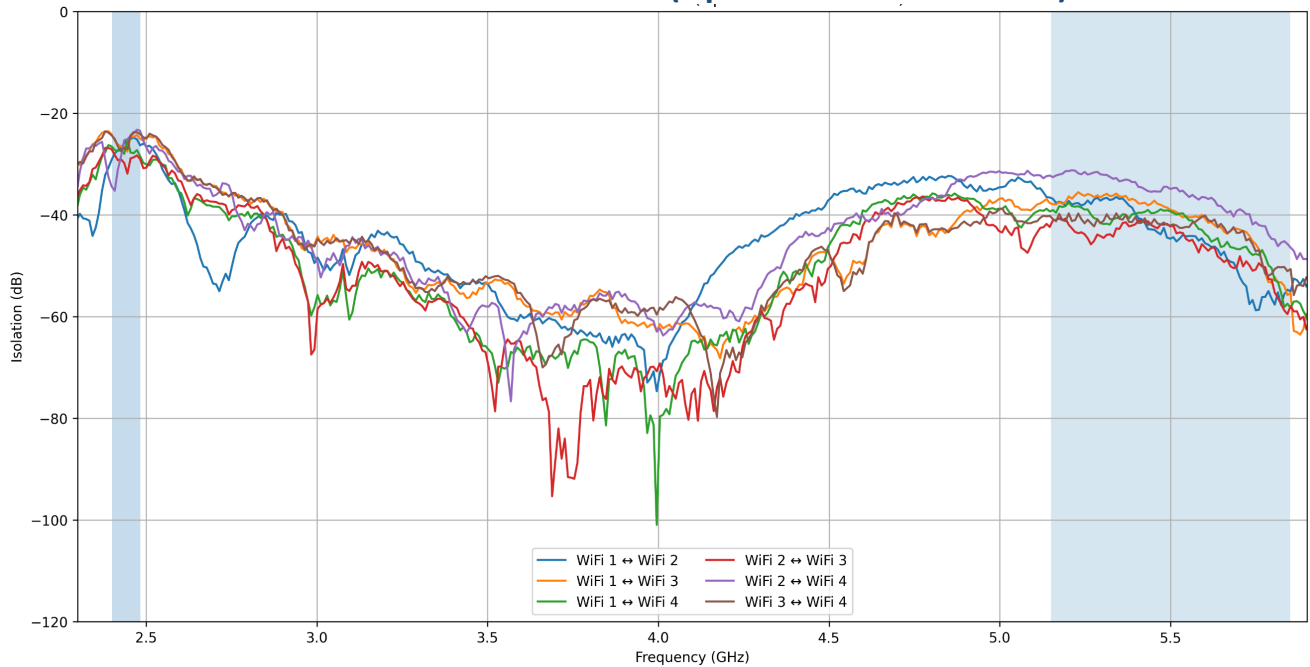


Subject to change without prior notice.

TETRA Antenna – Return Loss (380-430 MHz)



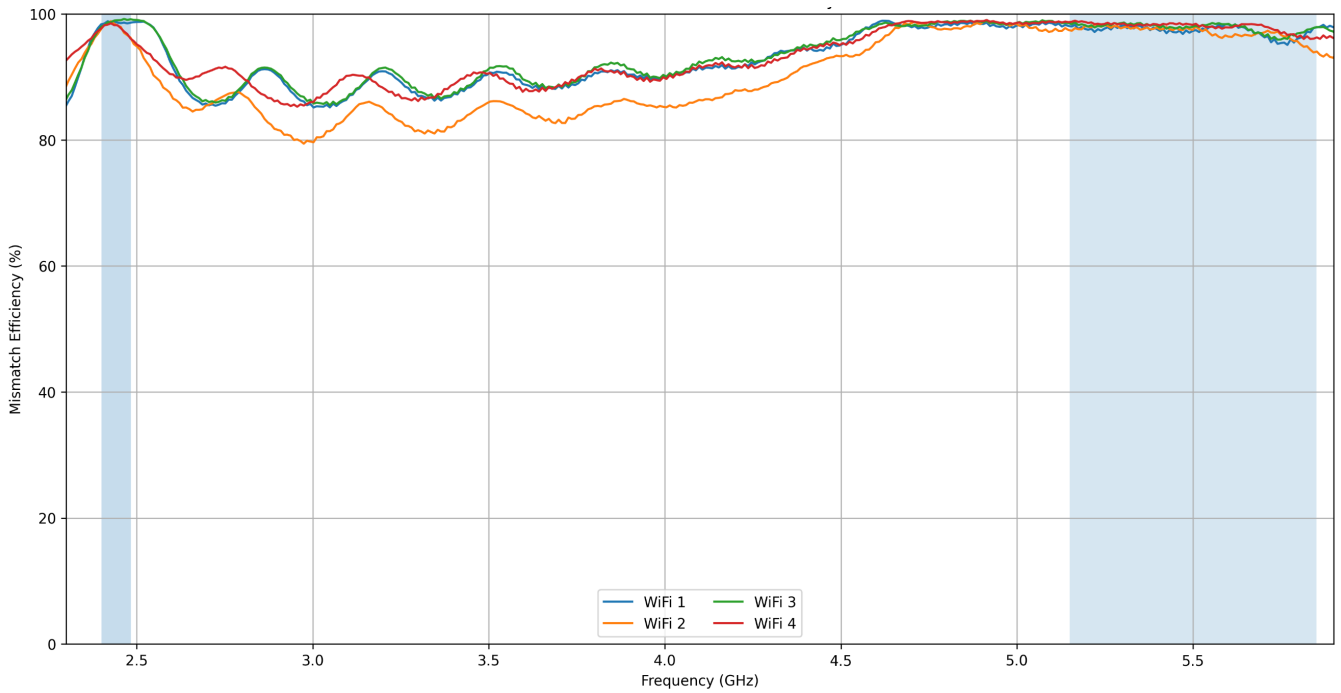
WiFi Port-to-Port Isolation (Updated Measurements)



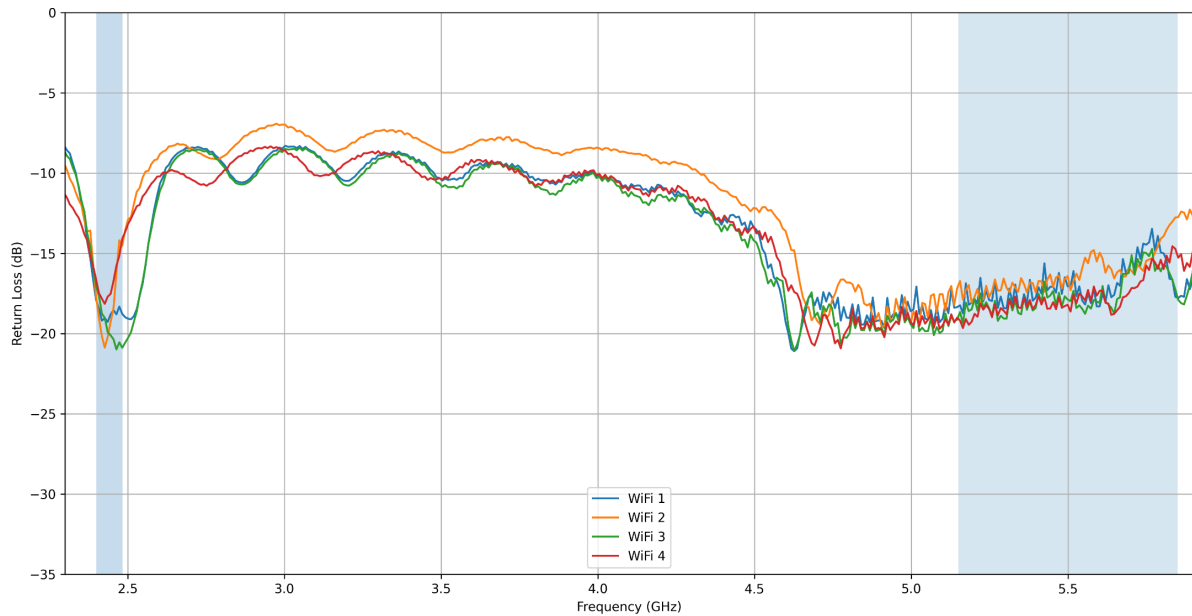
Subject to change without prior notice.

8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

WiFi Ports -Mismatch Efficiency



WiFi Antenna – Dual-Band Return Loss



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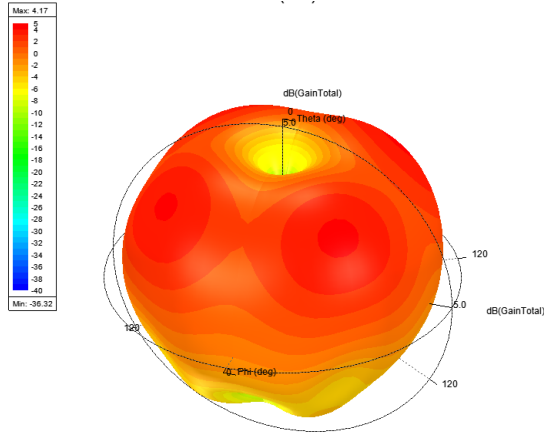
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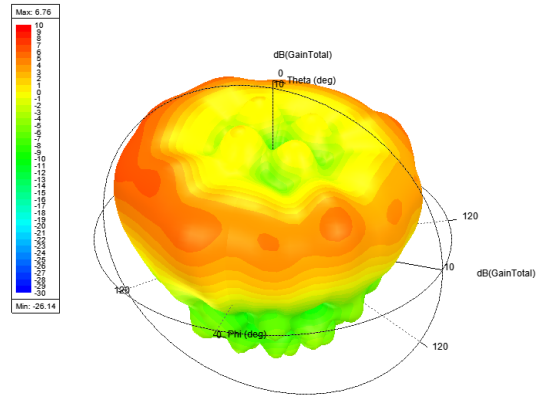
8000-320 'Sandcastle' Multifunction 15-in-1 Antenna

3D Radiation Pattern

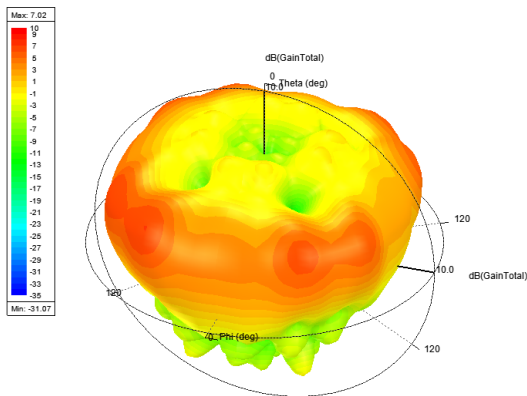
820MHz



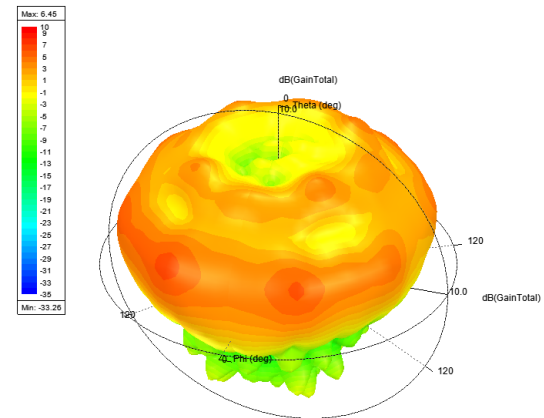
1820MHz



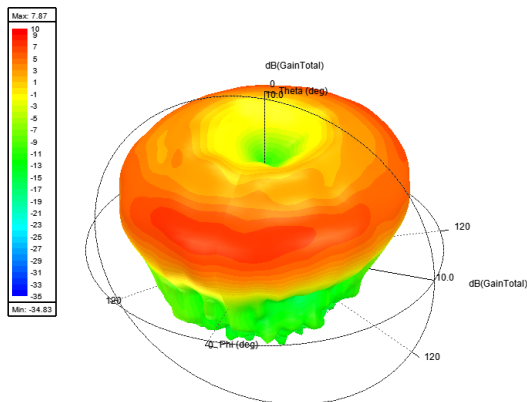
2140MHz



2600MHz



3600MHz



Subject to change without prior notice.

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