

SK0200750 Sandcastle Antenna 6-in-1 Black incl. 5m Coax Cables - Tetra

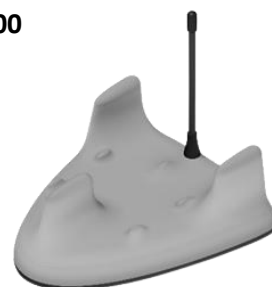


**5 YEARS
WARRANTY**



- 6 Functions in 1 Antenna
- Optional Support for Tetra Whip
- 4x4 MiMo Wideband 2G 3G 4G 5G
- Ultra-Wide Bandwidth 698MHz – 6000MHz
- Low Profile
- Simple, Single Hole Installation
- GPS/GNSS Port DC Isolated
- CE Directive 2014/53/EU Compliant

Available in white: SK0200800



The 'Sandcastle' is a multifunction antenna designed to future-proof blue and amber light vehicle fleets. It integrates 6 functions into a single, panel-mounted unit, making it an efficient choice for public safety and emergency services.

The Sandcastle features 4 ultra-wideband cellular antenna elements that cover frequencies from 698MHz to 6GHz, offering a minimum gain of 4dBi across the band. This ensures robust, reliable communication for various applications. The antenna can also be installed as a ground plane-independent unit, simplifying the installation process.

In addition to cellular coverage, the Sandcastle includes GPS and a TETRA whip which are accessible through a single 19mm hole in the vehicle's roof, eliminating the need for multiple installations. This design reduces installation time and maintains vehicle integrity.

Custom options, such as low-loss coax cable fitting kits, are also available. Contact us for more details on how the Sandcastle can meet your fleet's needs.

Additional Part Number Options

SK0200752	Sandcastle Antenna 6-in-1 Black incl. 3m Coax Cables - Tetra
SK0200800	Sandcastle Antenna 6-in-1 White incl. 5m Coax Cables - Tetra
SK0200802	Sandcastle Antenna 6-in-1 White incl. 3m Coax Cables - Tetra

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A brand of



MOBILE RADIO

Technical Specifications

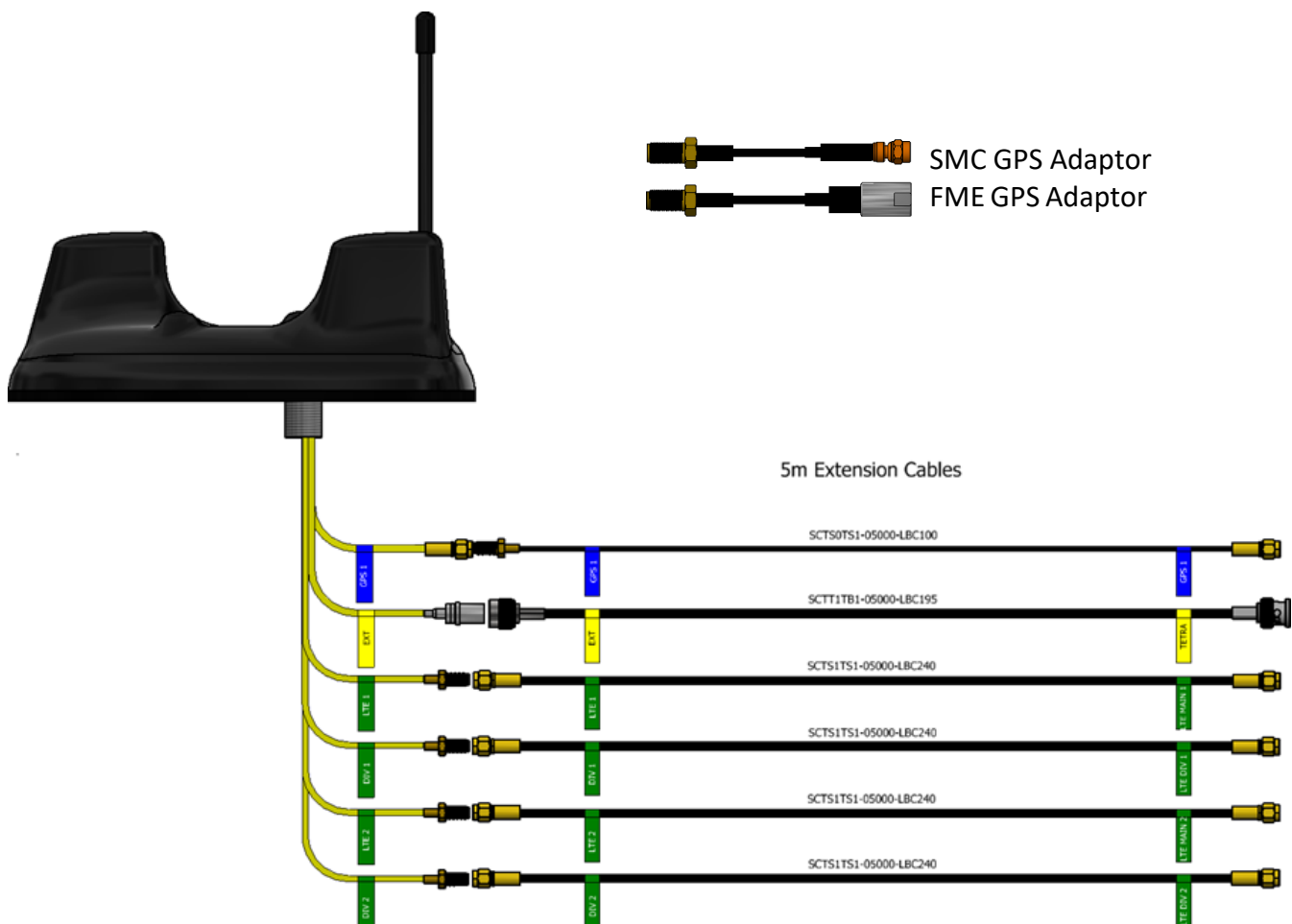
Electrical Data	TETRA	2G 3G 4G 5G
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz
Band	TETRA	4x Wideband LTE 4x4 MiMo
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi	Minimum 4dBi
Isolation	-	<-25dB
Polarisation	Vertical	Vertical
Pattern	Omni-directional	Omni-directional
Impedance	50Ω	50Ω
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, each port is DC isolated)	
Cable	2x RG316 Terminated to SMA (m)	
Mechanical Data		
Dimensions (mm)	H76xW197xL227 *	
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)	
Material	ABS	
Colour	Black	
Weight (g)	600	
Cable Data		
Cable Type	RG316	RG316
length (mm)	300	300
Diameter	2.8	2.8
Termination	TNC (f)	SMA (f)
Mounting Data		
Mounting Type	Panel mount with adhesive pad	
Mounting Hole (mm)	19mm	

Subject to change without prior notice. *Excluding optional whip

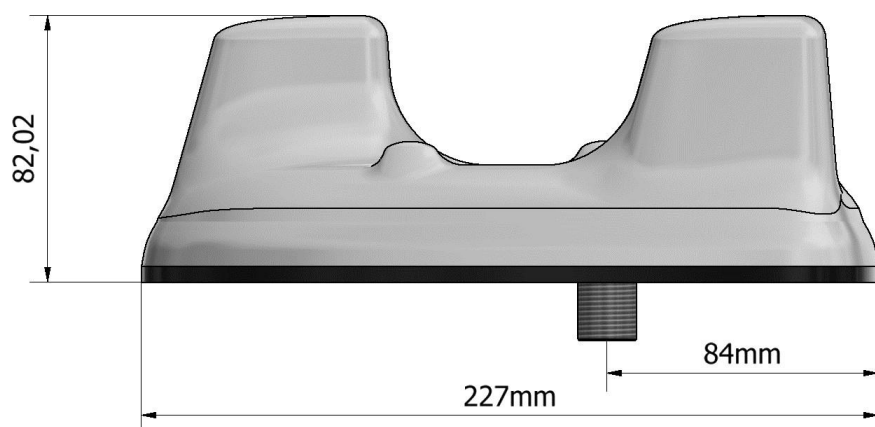
Supplied Coax Extension Cables

Coax Cables	4x LTE	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 (m)	BNC (m)	SMA (m) – Motorola and Sepura adaptors supplied.
Labeling	LTE M & LTE A	TETRA	GPS TETRA

Technical Drawings



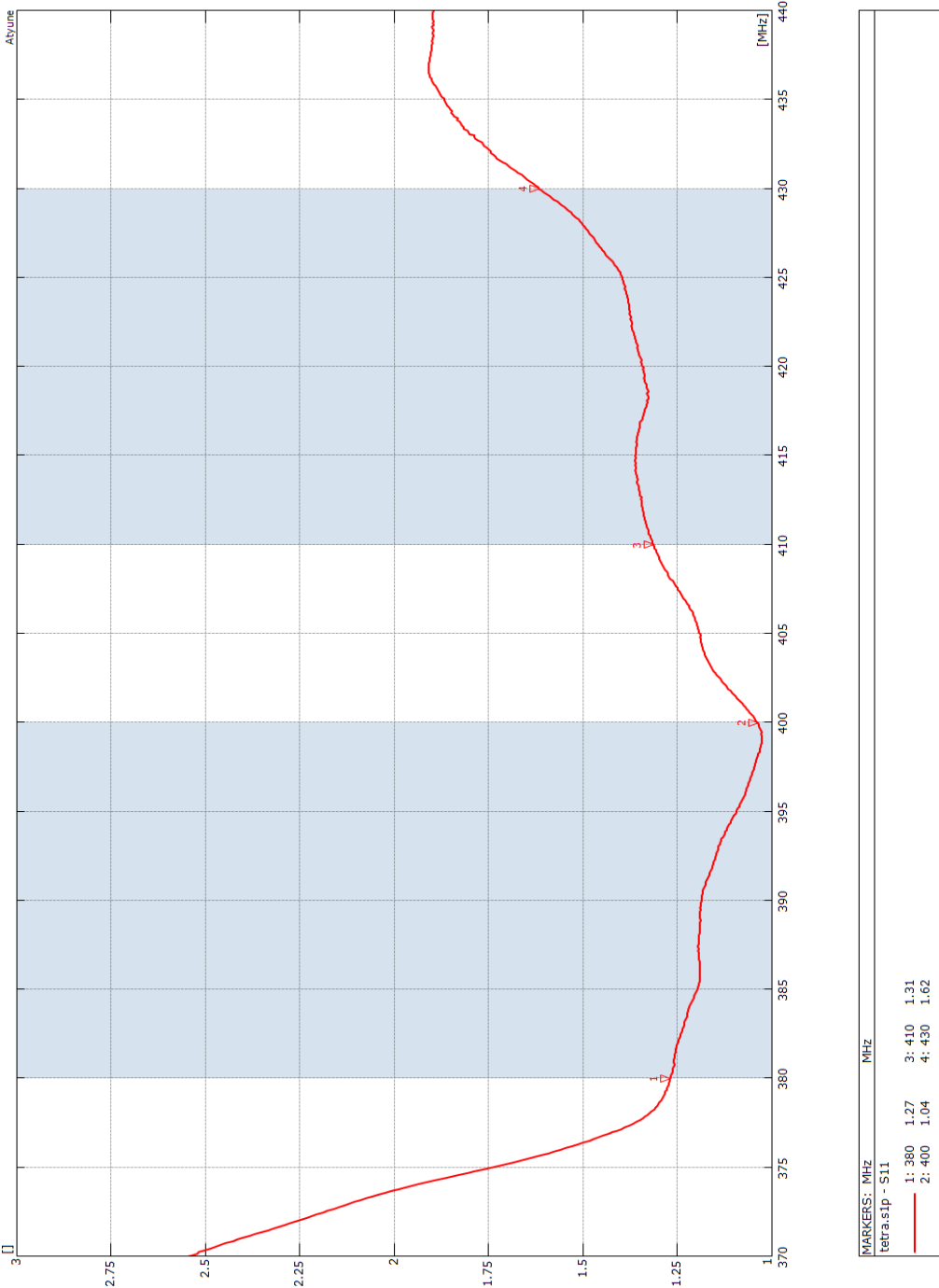
Technical Drawing



MARKERS:	MHz	MHz	MHz
luteallard.s2p - S11			
1: 698	3.87	3: 824	1.65
2: 798	1.70	4: 960	1.85
		5: 1710	1.36
		6: 2170	1.27
		7: 2500	1.22
		8: 2690	1.54

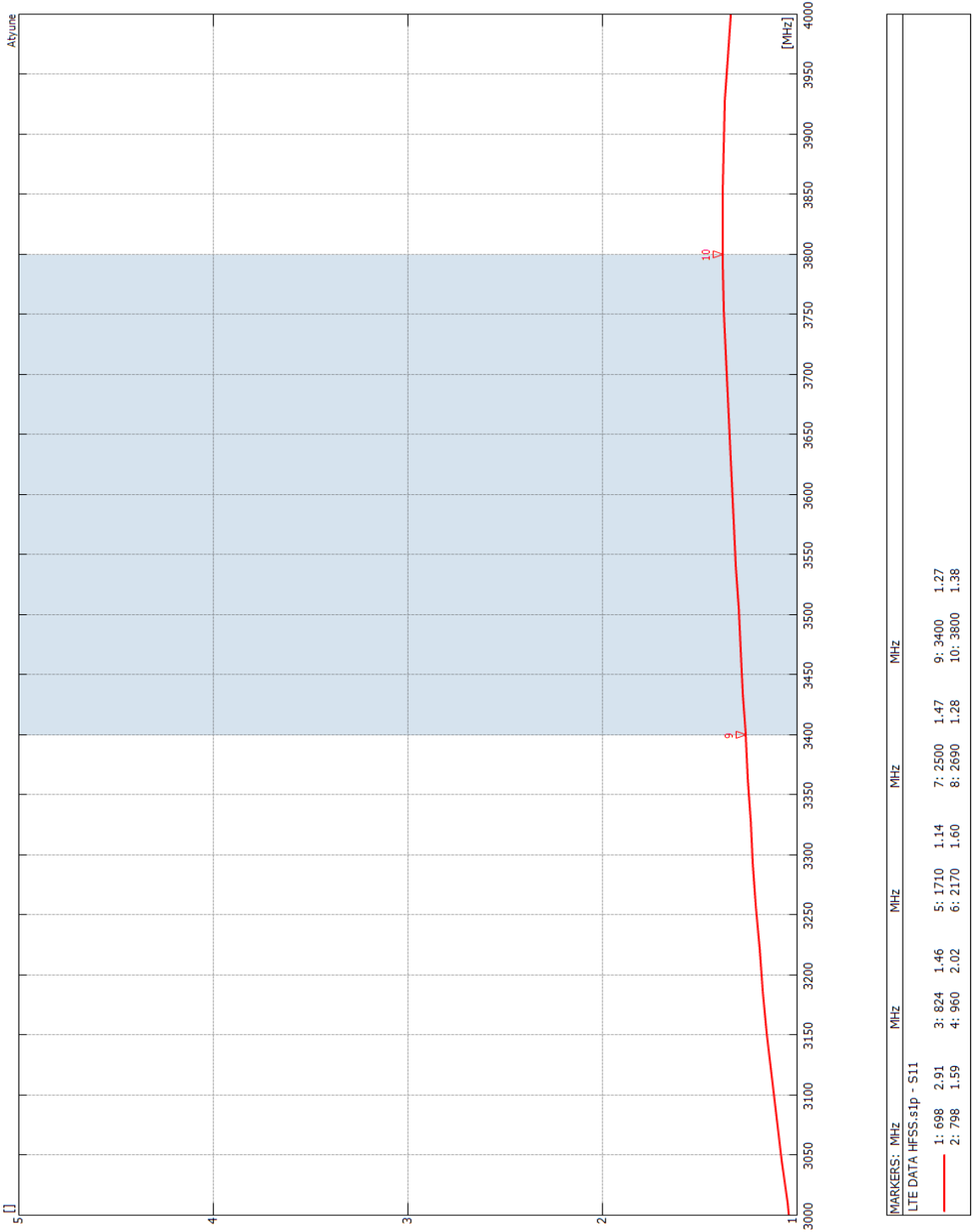
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TETRA VSWR Plot



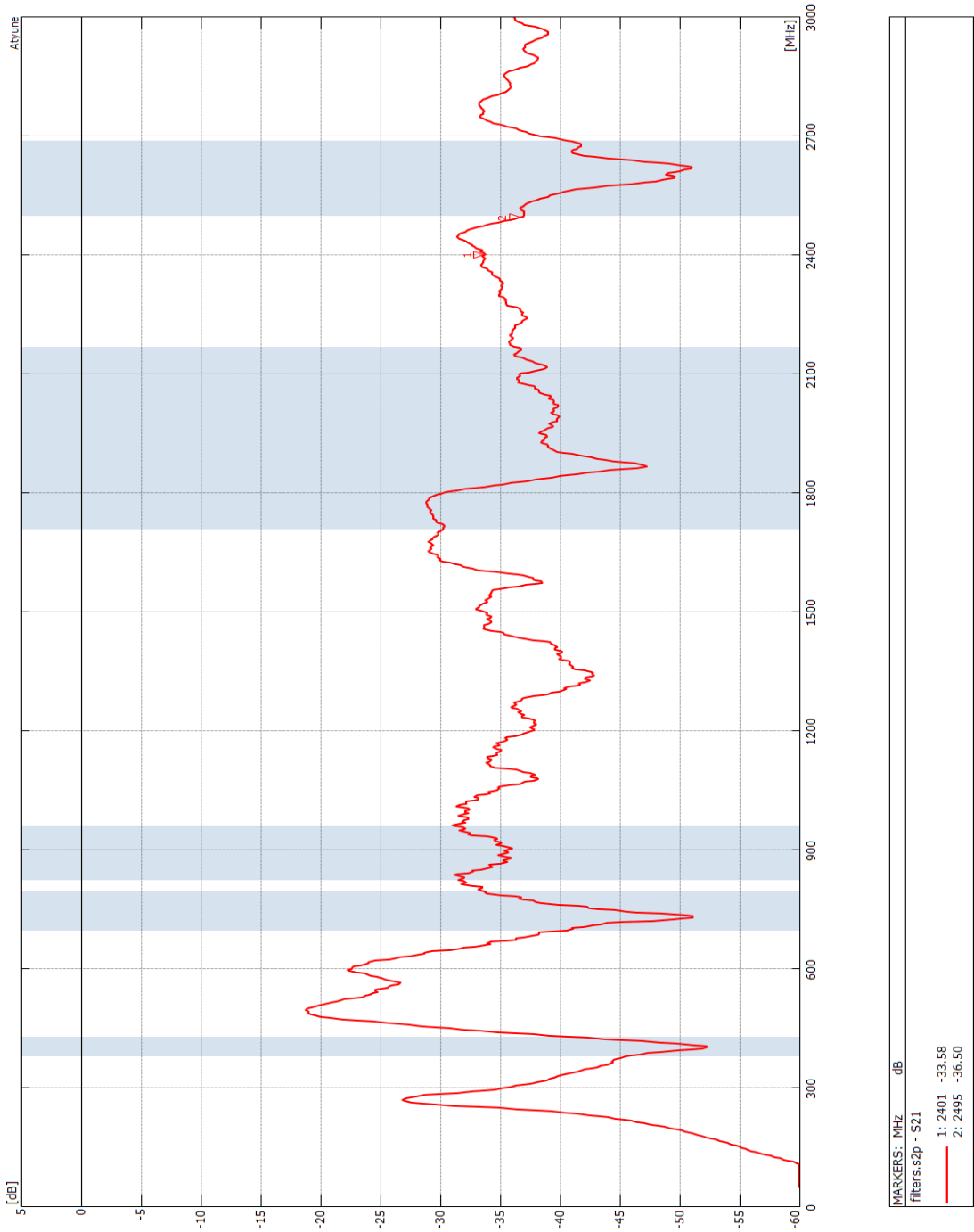
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5G VSWR Plot



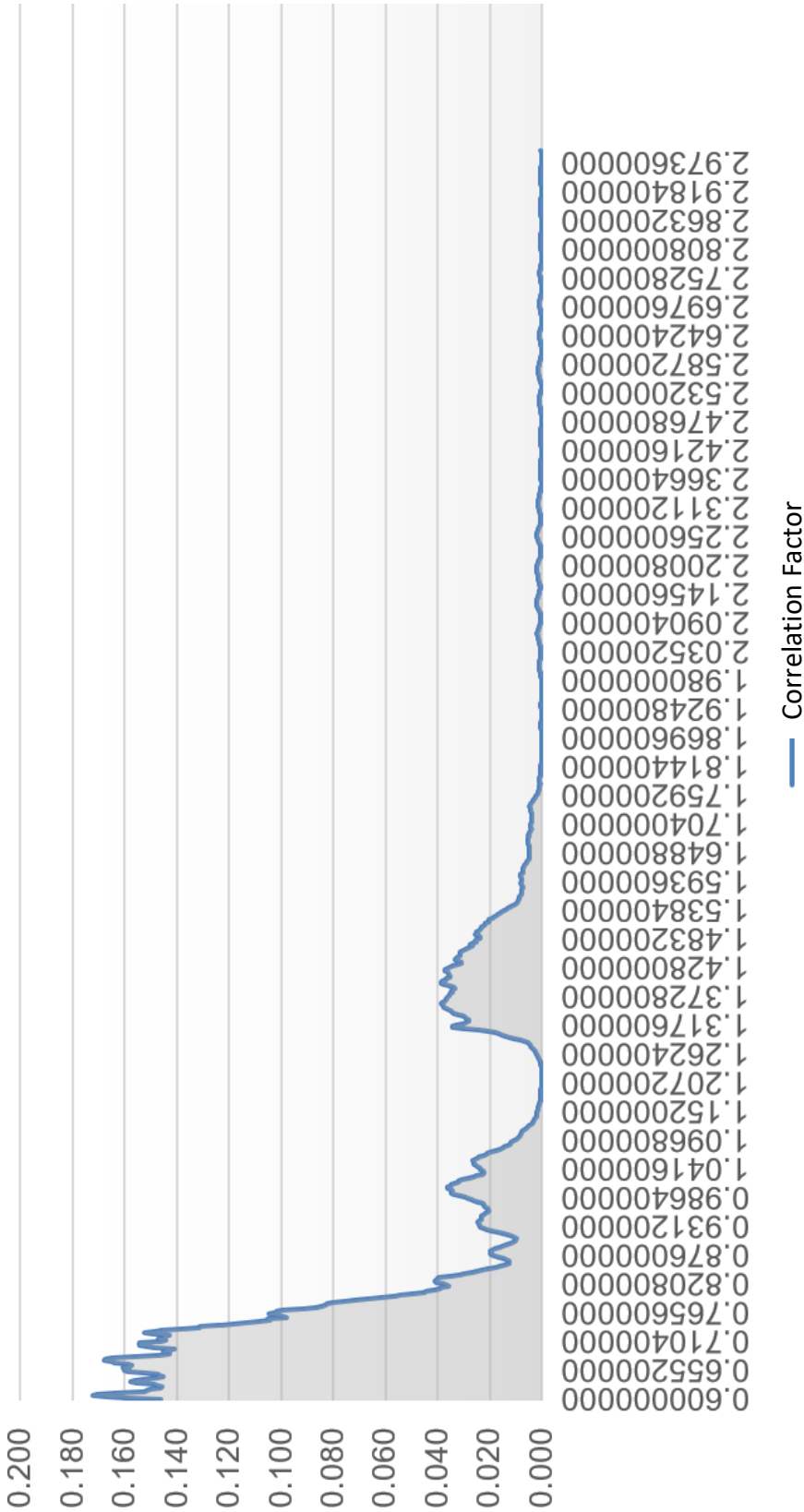
Subject to change without prior notice.

TETRA & LTE Isolation



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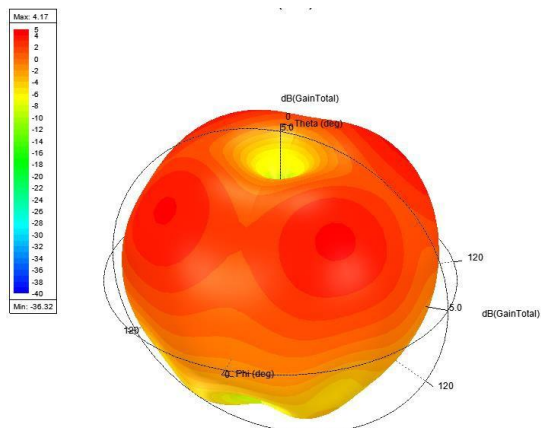
LTE Correlation Coefficient



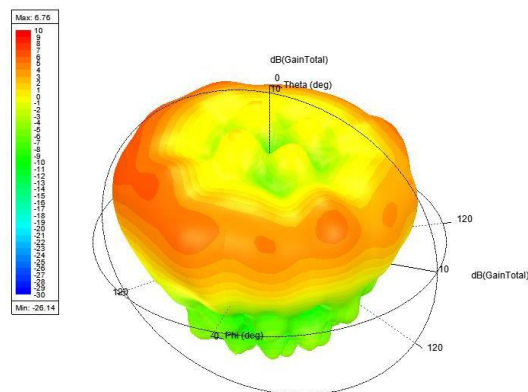
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3D Radiation Pattern

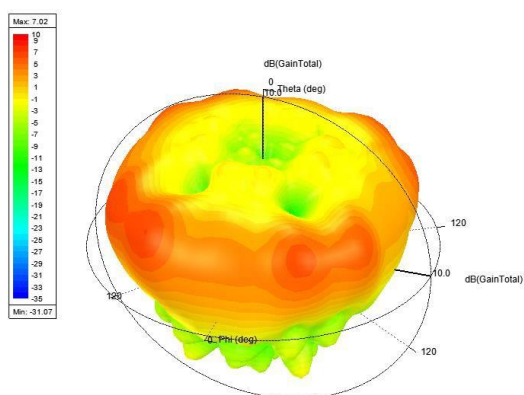
820Mhz



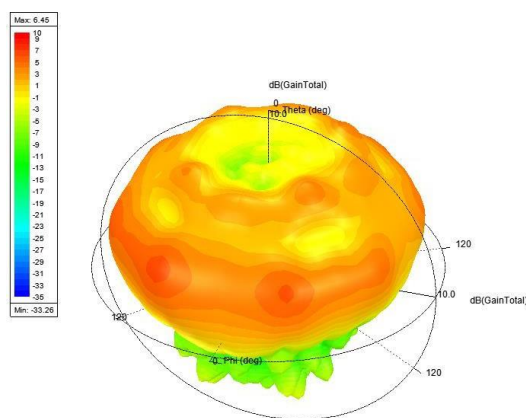
1820MHz



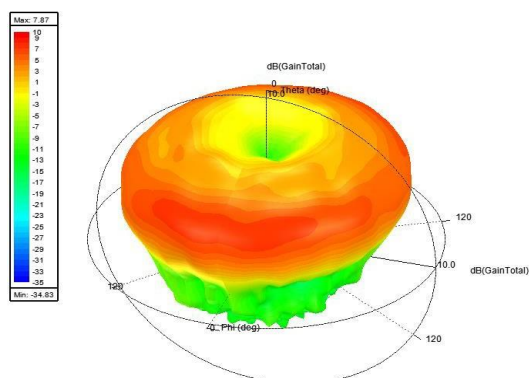
2140Mhz



2600Mhz



3600Mhz



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Optional Installation Accessories

0250-MP074.02	Sandcastle Thread Extender M20 x 1.5	
SK0229201	LTE Adaptor Cable 500mm Panasonic CF33 Havis Dock SMA - TNC	
SK0229202	GPS Adaptor Cable 500mm Panasonic CF33 Havis Dock SMA - TNC	
SK0125500	GPS Adaptor Cable 10mm Handsfree R5 SMA - Blue Fakra	
SCTS0TG0-00100-RG316	GPS Adaptor Cable 10mm Cleartone SMA - GT5	
ST50S0	GPS or LTE 50 ohm Terminations : SMA Female	
Other optional custom coax cables are available, please contact us for more information.		