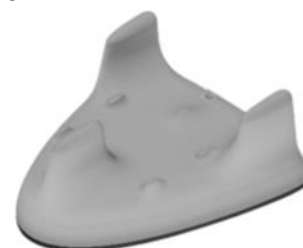


- 5 Functions in 1 Antenna
- 4x4 MiMo Wideband 2G 3G 4G 5G
- Ultra-Wide Bandwidth 698MHz – 6000Mhz
- Low Profile
- Simple, Single Hole Installation
- GPS/GNSS Port DC Isolated
- CE Directive 2014/53/EU Compliant

Available in white: SK0200690



The 'Sandcastle' is a multifunction antenna designed to future-proof blue and amber light vehicle fleets. It integrates 5 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 which is 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

SK0200642	Sandcastle Antenna 5-in-1 Black incl. 3m Coax Cables
SK0200690	Sandcastle Antenna 5-in-1 White incl. 5m Coax Cables
SK0200692	Sandcastle Antenna 5-in-1 White incl. 3m Coax Cables

Technical Specifications

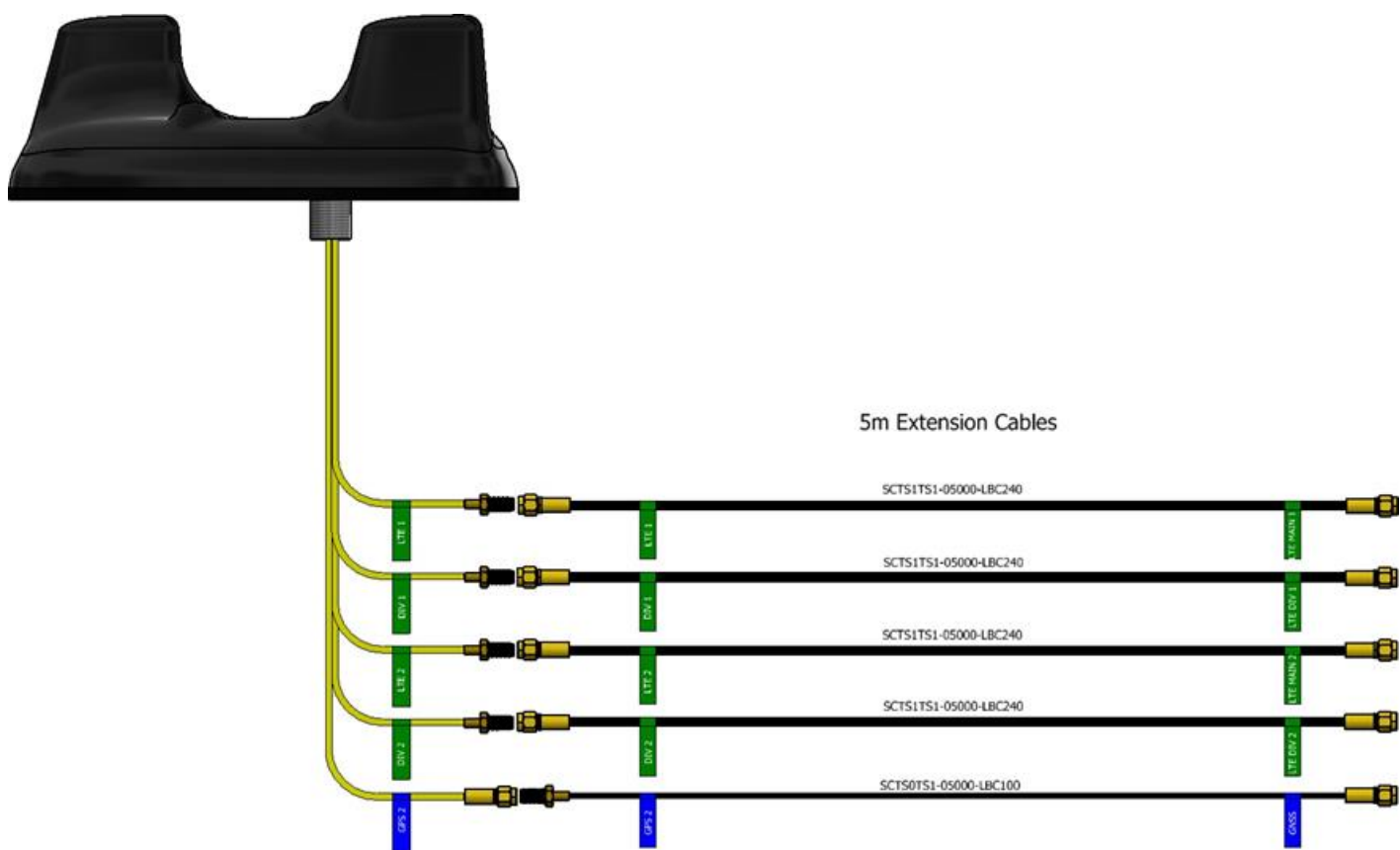
Electrical Data	2G 3G 4G 5G
Frequency Range (MHz)	698-6000 MHz
Band	4x Wideband LTE 4x4 MiMo
VSWR	<2.1:1 TYPICALLY 1.5:1
Gain	Minimum 4dBi
Isolation	<-25dB
Polarisation	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Power Input (W)	10W
	GPS/GLONASS
Frequency Range (MHz)	1562-1612
VSWR	<2:1
Gain	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
length (mm)	300
Diameter	2.8
Termination	SMA (f)
Mounting Data	
Mounting Type	Panel mount with adhesive pad
Mounting Hole (mm)	19mm

Subject to change without prior notice.

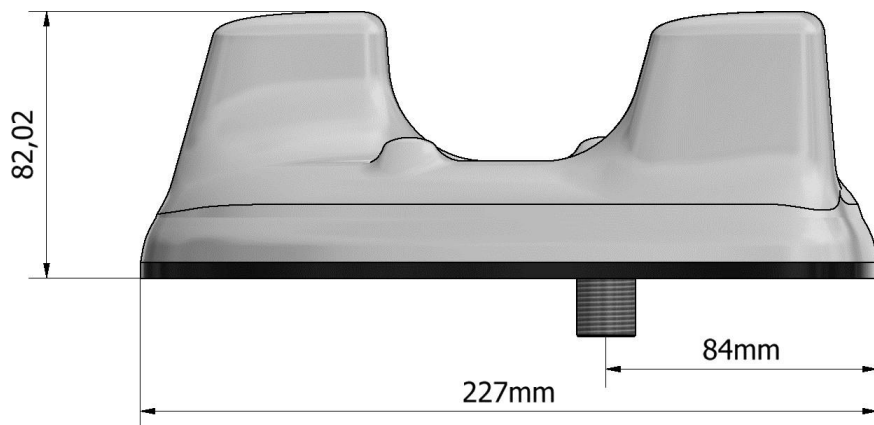
Supplied Coax Extension Cables

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

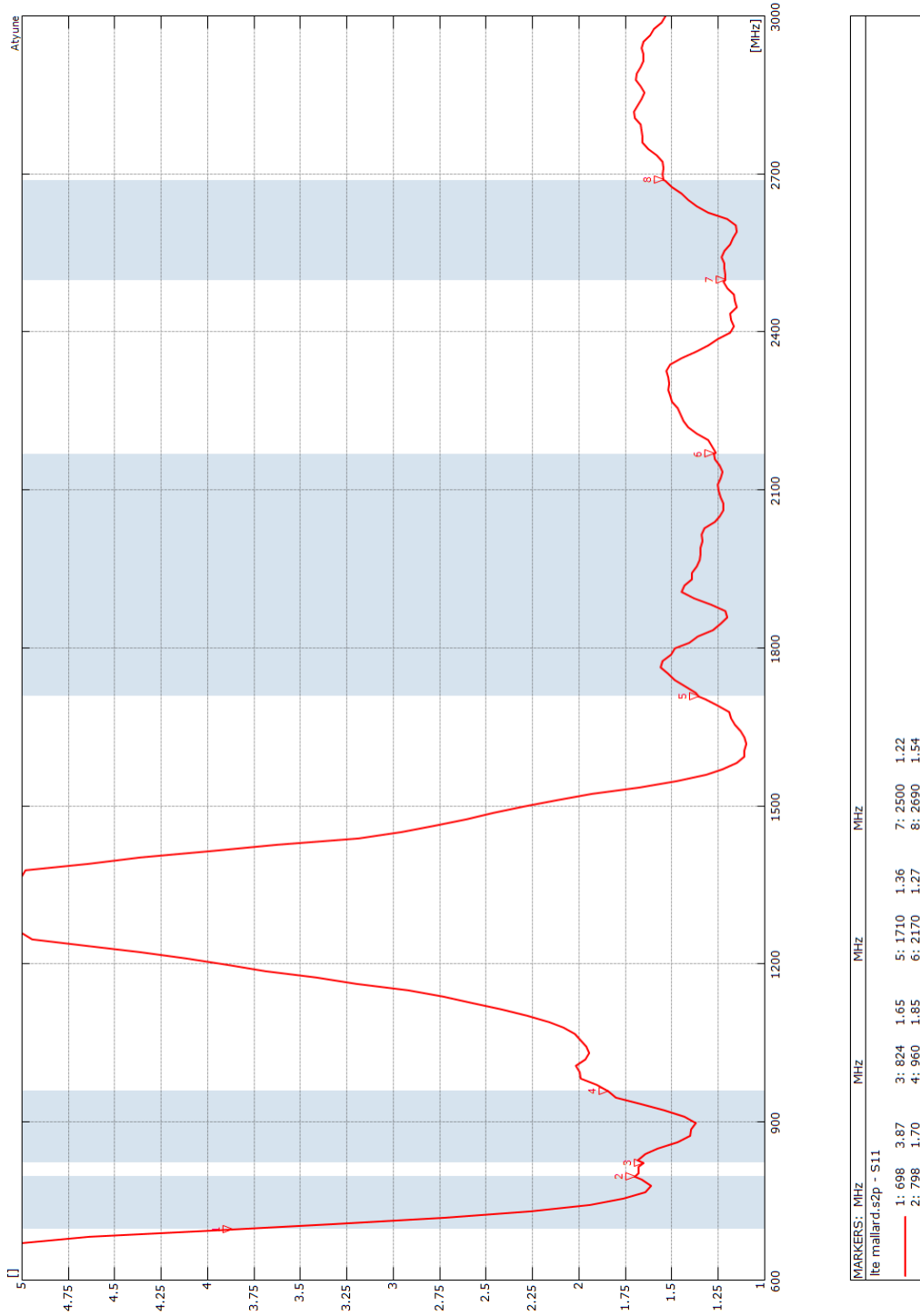
Technical Drawings



Technical Drawing

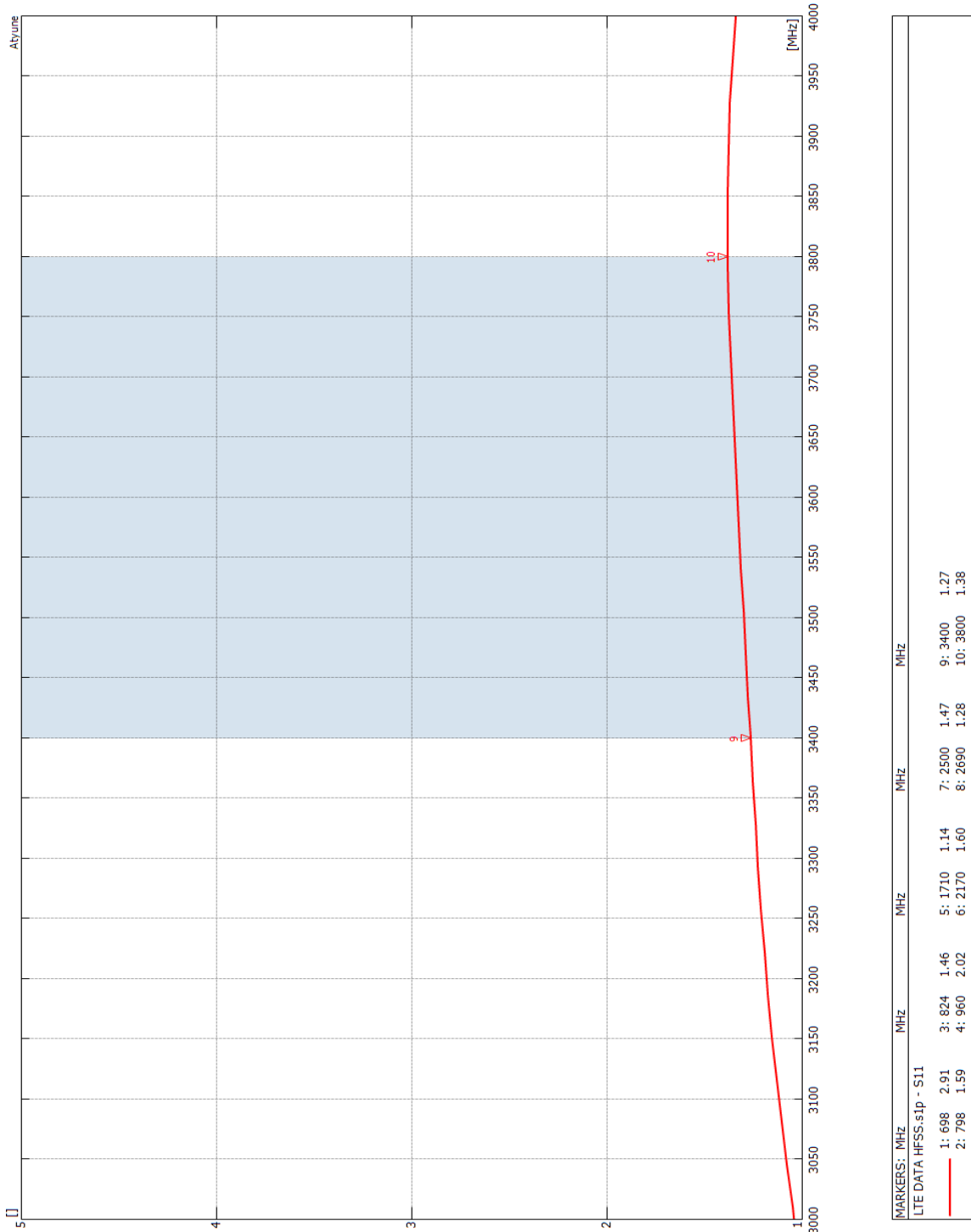


LTE VSWR Plot



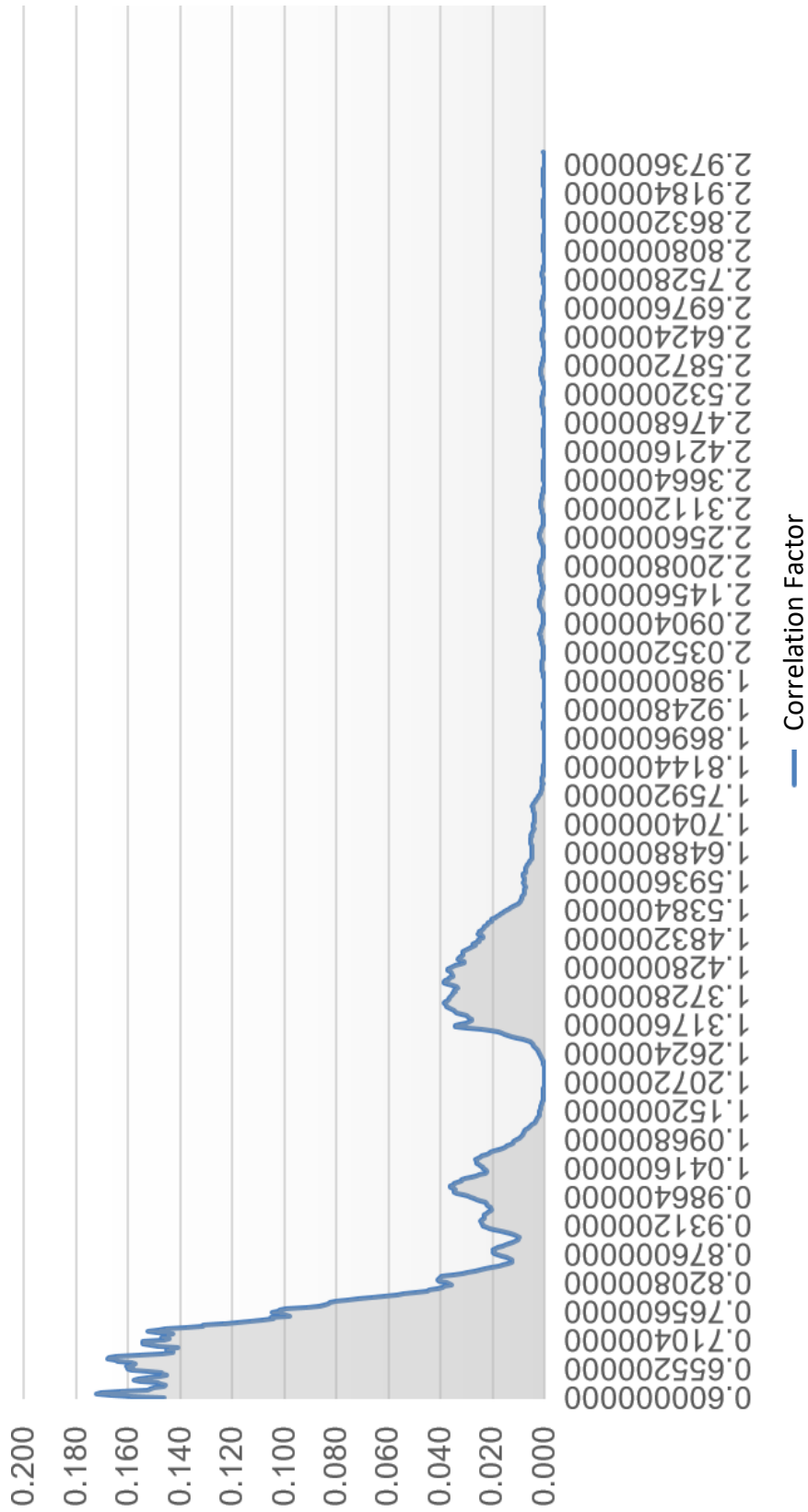
Subject to change without prior notice.

5G VSWR Plot



Subject to change without prior notice.

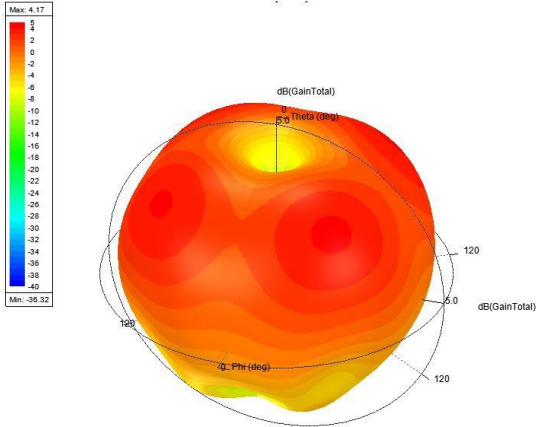
LTE Correlation Coefficient



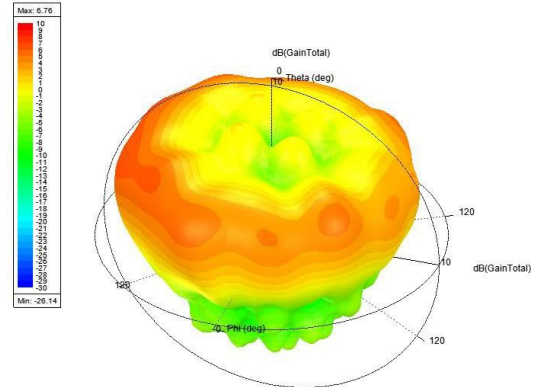
Subject to change without prior notice.

3D Radiation Pattern

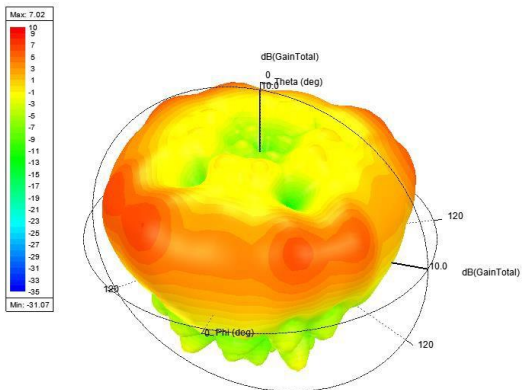
820Mhz



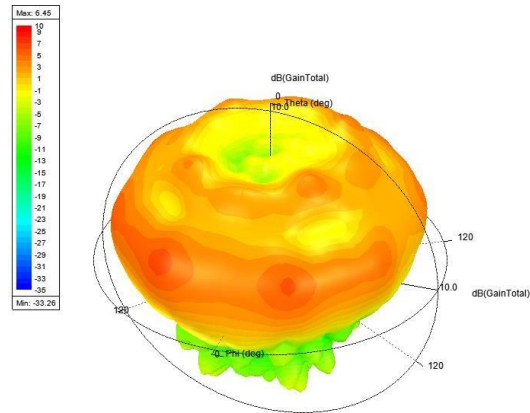
1820MHz



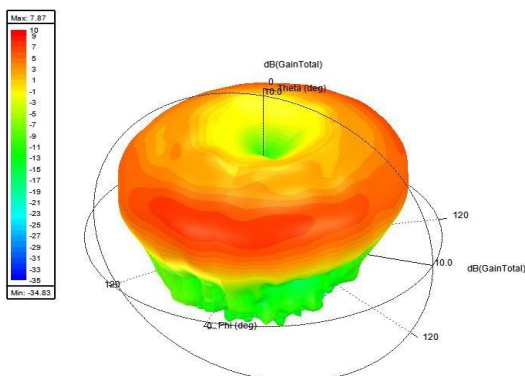
2140Mhz



2600Mhz









3600Mhz



Subject to change without prior notice.

Optional Installation Accessories

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