

# 2J6A41B

## (DATASHEET)

<b>Type</b>	Multiband antenna
<b>Frequencies</b>	4G/LTE (699-960/1710-2690 MHz) AMPS (850 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz) GPS (1575.42 MHz) GALILEO L1 (1575.42 MHz)
<b>Mounting</b>	Body Mount
<b>Revision</b>	01



## 1. SPECIFICATION

### 1.1. Electrical Specifications

#### LTE (Cable 1)

Frequencies	4G/LTE (699-960/1710-2690 MHz) AMPS (850 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	Linear
Gain	2dBi Max.
VSWR	<3.3:1
Power handling	25W

#### Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz) GALILEO L1 (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.2dB
Patch gain	2-3 dBiC
Patch size	24 x 24 x 4 mm
Polarization	RHCP
LNA Gain	23dB at 3V / 24dB at 5V
VSWR	<1.5:1
Voltage supply	2.7V - 5.5V
Current	15mA - 25mA
Power (max.)	138mW
GPS Isolation	25dB min.

### 1.2. General Specifications

Certificates	IP67, IK09, IP69K
Operating temperature	-40°C to +85°C

### 1.3. Connection Specifications

#### Cable 1 (LTE)

Connector type: SMA male  
 Cable: RG174U  
 Cable length: 100 cm

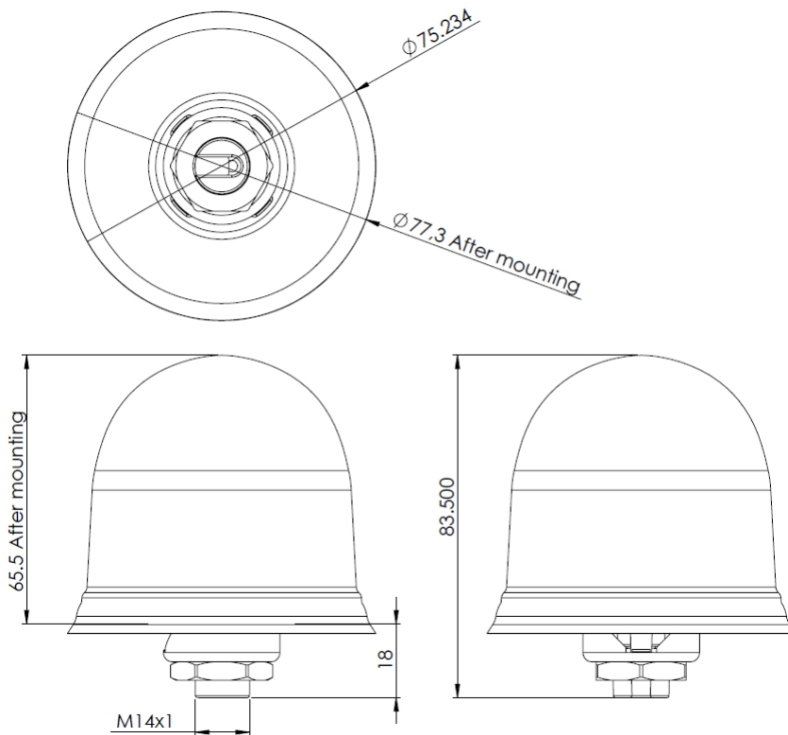
#### Cable 2 (Navigation)

Connector type: SMA male  
 Cable: RG174U  
 Cable length: 100 cm

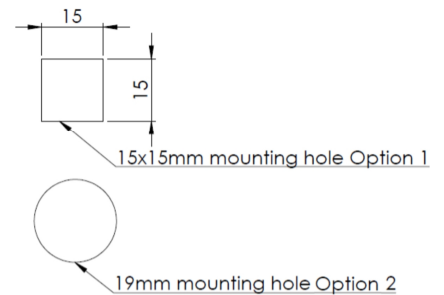
For different cable length and connector type ask our sales team.

### 1.4. Mechanical Specifications and Dimensions

Material: Base: Zamak / Gasket: TPE / Lid: ASA  
 Max. dimensions: 77.3mm x 66.5mm (After mounting)  
 Weight: 145 g 'weight counted with cable above'  
 Colour: Black (for different colours please ask our sales team)



### Mounting holes



Basic shape of base



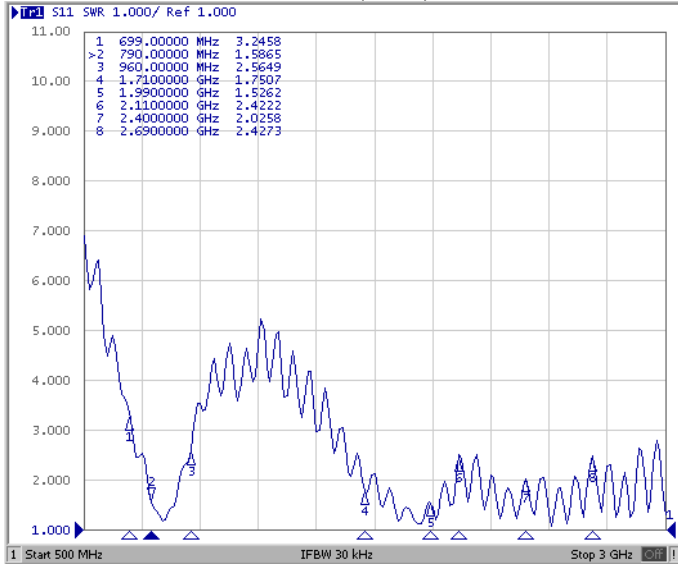
Screw M14x1



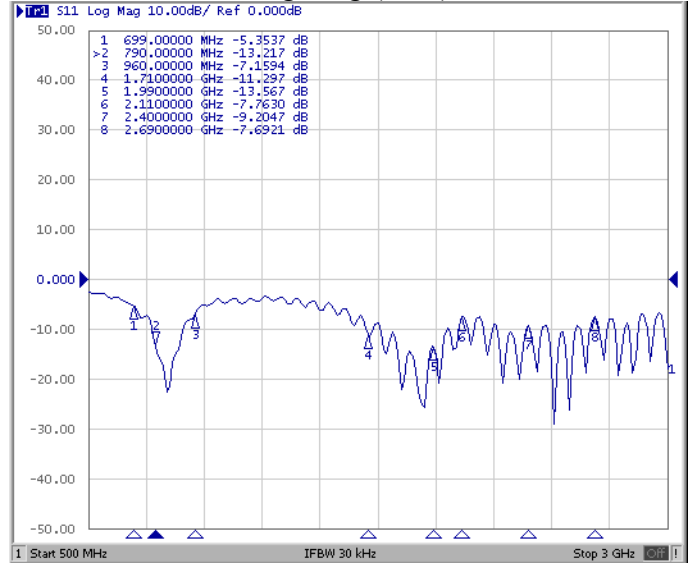
## 2. MEASUREMENT

- Measured on Ground plane 60x60cm with 100cm cable RG174

VSWR (LTE)



Log Mag (LTE)



S21 (GPS)

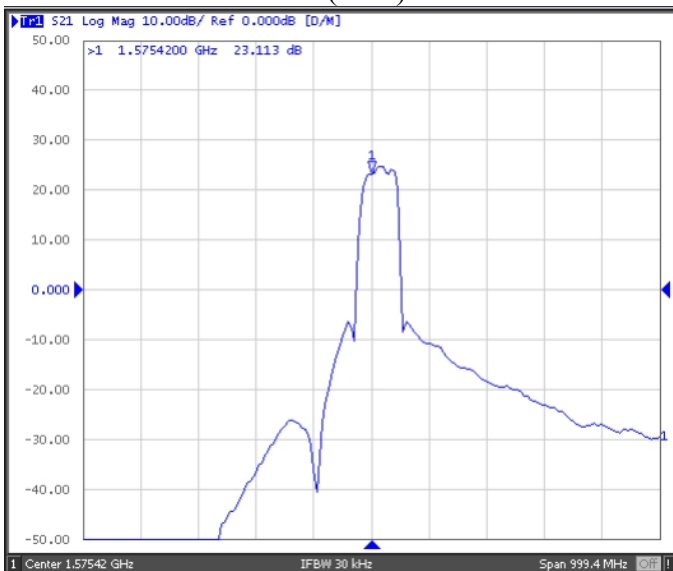


Figure 1 – GNSS gain at 3V

Freq = 1.5754GHz Az= 45 EL= 45

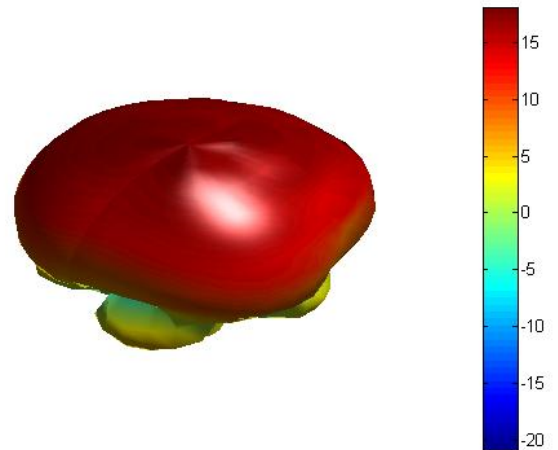
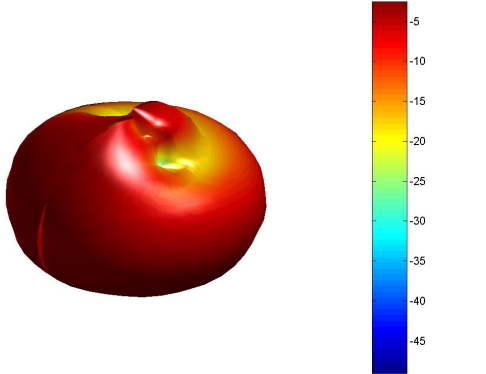


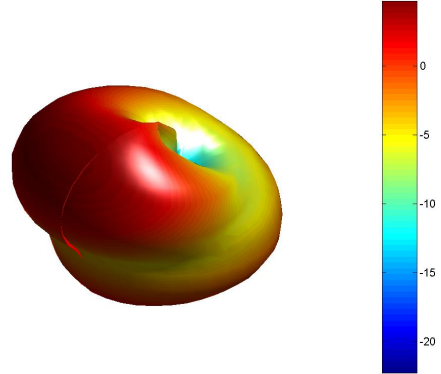
Figure 2 - GNSS 3D radiation pattern

### 3D Radiation Pattern

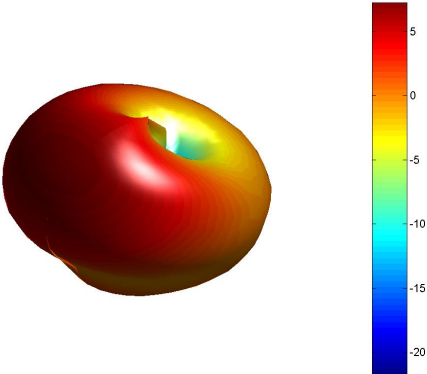
Freq = 0.798GHz Az= 45 EL= 45



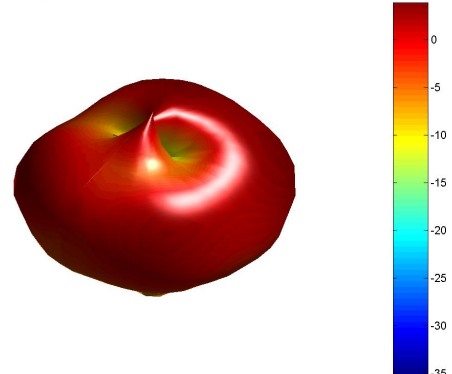
Freq = 0.8530GHz Az= 45 EL= 45



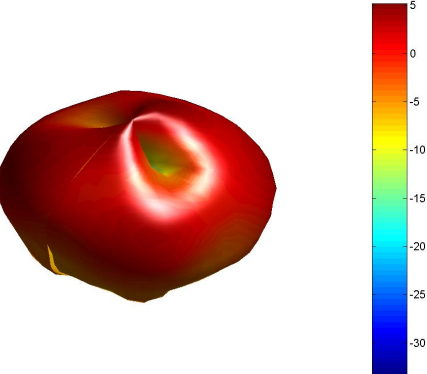
Freq = 0.897GHz Az= 45 EL= 45



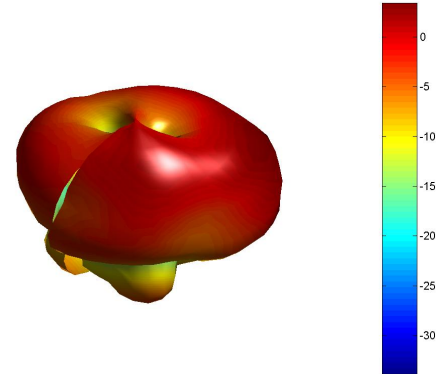
Freq = 1.799GHz Az= 45 EL= 45



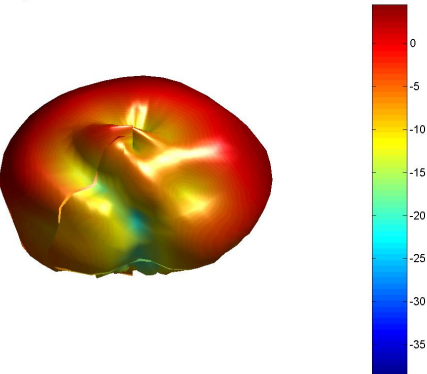
Freq = 1.909GHz Az= 45 EL= 45



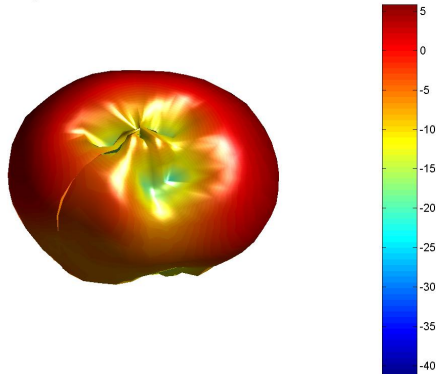
Freq = 2.107GHz Az= 45 EL= 45



Freq = 2.404GHz Az= 45 EL= 45



Freq = 2.602GHz Az= 45 EL= 45



### 3. IMAGES

