2J6A41BG

(DATASHEET)

Type	Multiband antenna
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) GPS (1575.42 MHz) GALILEO L1 (1575.42 MHz) GLONASS (1592 - 1610 MHz)
Mounting	Body Mount
Revision	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) GLONASS (1592 - 1610 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

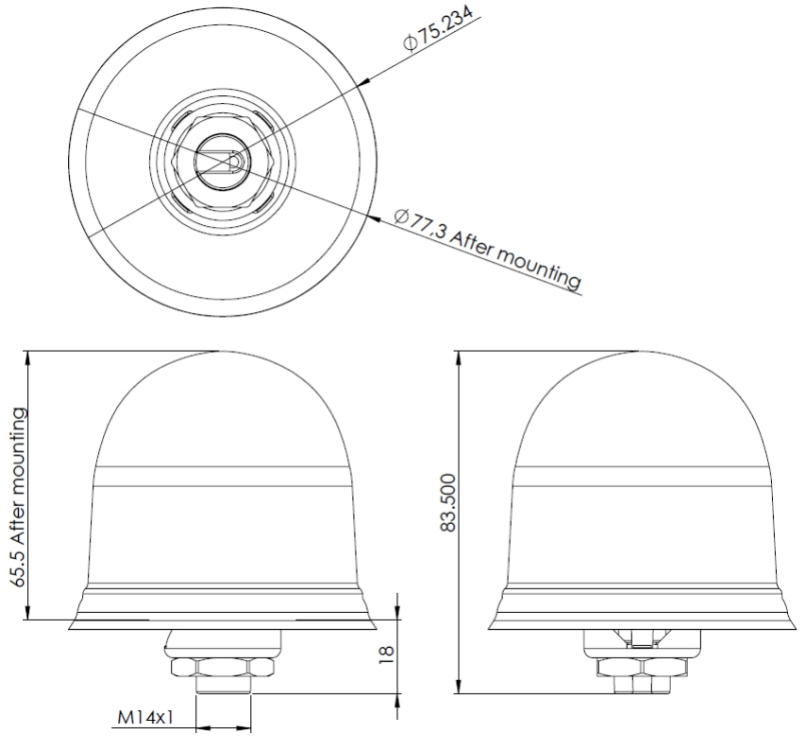
Cable 2 (Navigation)

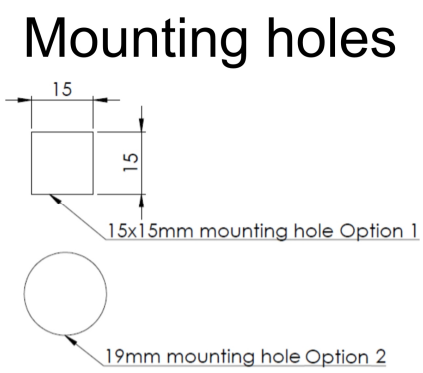
Connector type:	SMA male
Cable:	RG174U
Cable length:	100 cm

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

1.4. Mechanical Specifications and Dimensions

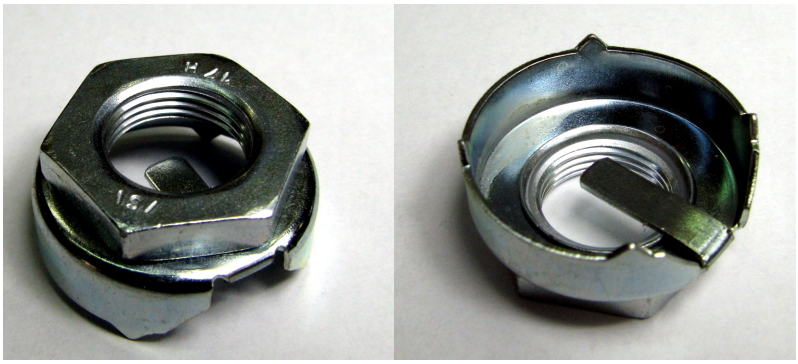
Material:	Base: Zamak / Gasket: TPE / Lid: ASA
Max. dimensions:	77.3mm x 66.5mm (After mounting)
Weight:	145 g 'weight counted with cable above'
Colour:	Black (for different colours please ask our sales team)





Basic shape of base

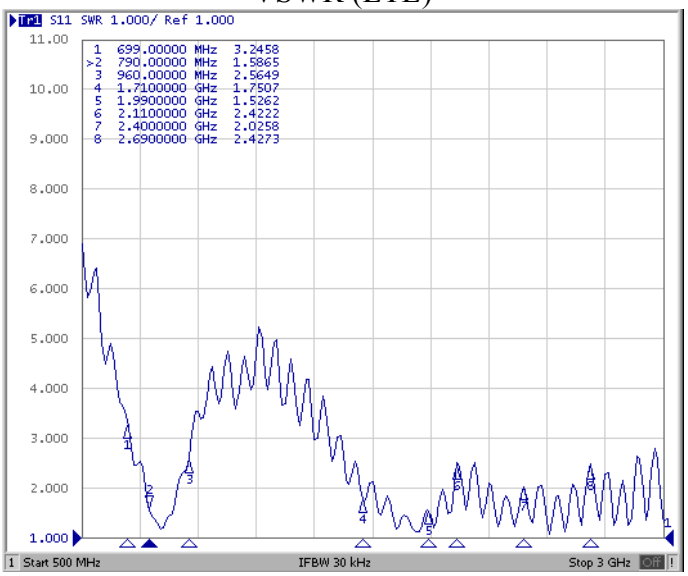
Screw M14x1



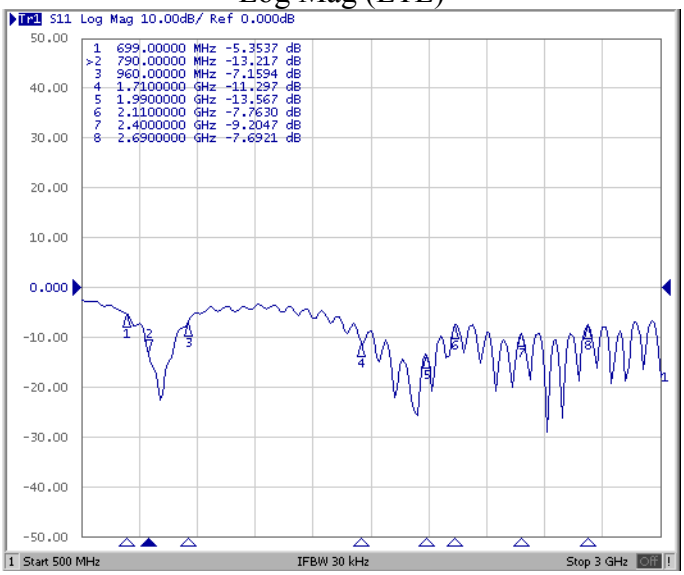
2. MEASUREMENT

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

VSWR (LTE)



Log Mag (LTE)



S21 (GNSS)

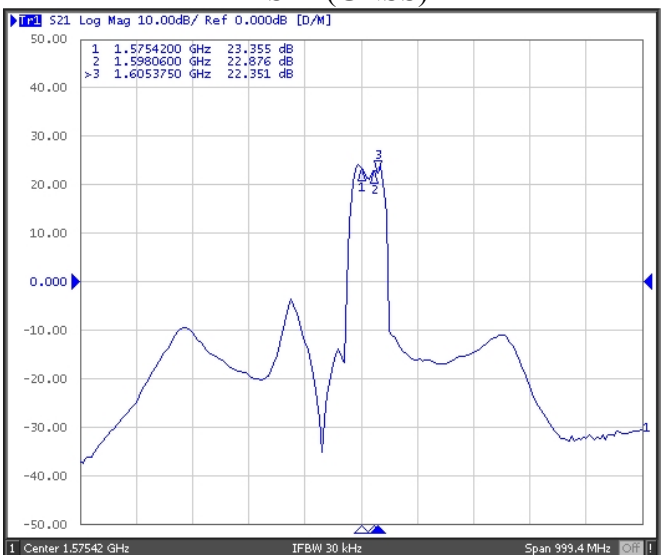


Figure 1 – GNSS gain at 3V

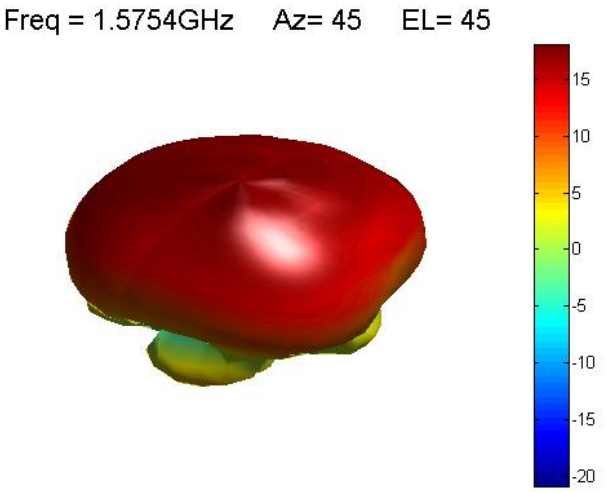
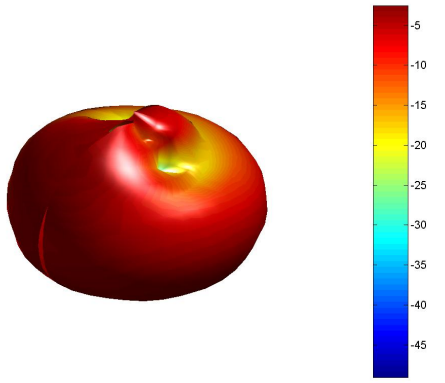


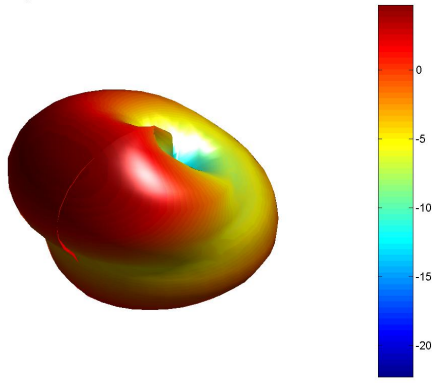
Figure 2 - GNSS 3D radiation pattern

3D Radiation Pattern

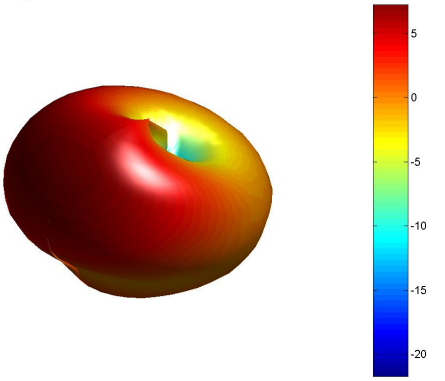
Freq = 0.798GHz Az= 45 EL= 45



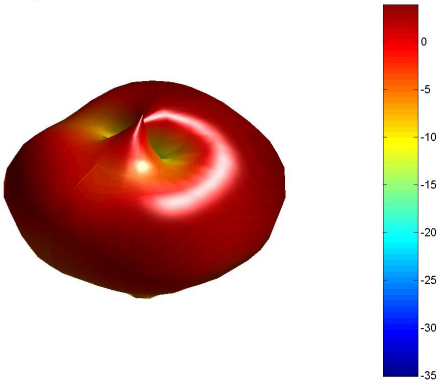
Freq = 0.8530GHz Az= 45 EL= 45



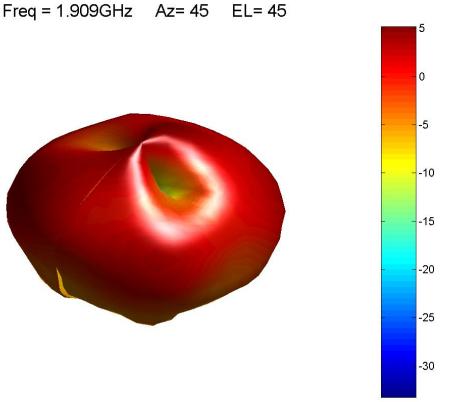
Freq = 0.897GHz Az= 45 EL= 45



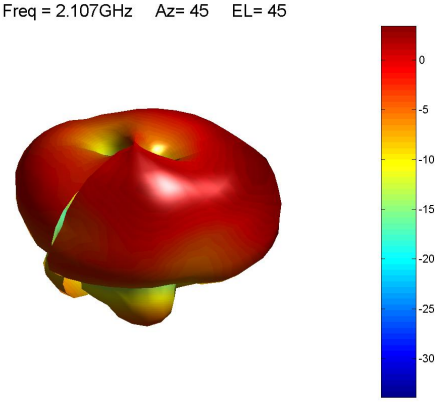
Freq = 1.799GHz Az= 45 EL= 45



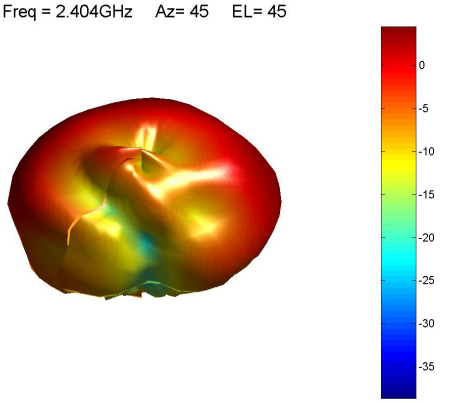
Freq = 1.909GHz Az= 45 EL= 45



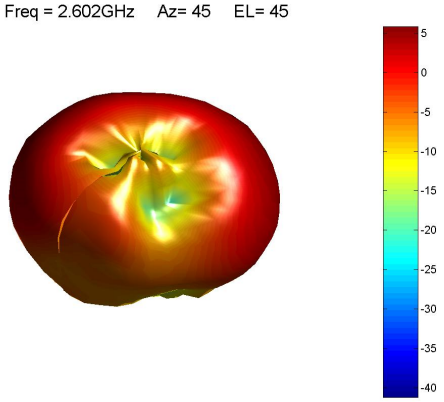
Freq = 2.107GHz Az= 45 EL= 45



Freq = 2.404GHz Az= 45 EL= 45



Freq = 2.602GHz Az= 45 EL= 45



3. IMAGES