



# 2J6516B 2J6516BG 2J6516M 2J6516MG (DATASHEET)

Type Frequencies

Mounting

Revision

Combined antenna TETRA (380 - 500 MHz) GPS (1575.42 MHz) WIFI / BLUETOOTH (2.4 GHz) B - Body Mount M – Magnetic Mount 00



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# **1. PRODUCT SELECTOR**

2J6516B	-	GPS L1 filtered body mount version.
2J6516BG	-	GPS-GLONASS filtered body mount version.
2J6516M	-	GPS L1 filtered magnetic version.
2J6516MG	-	GPS-GLONASS filtered magnetic version.

# 2. SPECIFICATION

#### 2.1. Electrical Specifications

Tetra (Cable 1)		
Frequencies*	TETRA (380 - 500 MHz)	
Bandwidth	15 MHz +/- 5 MHz	
Impedance	50 Ohms	
Polarization	Horizontal	
Gain	6dBi	
VSWR	<2:1	
Power handling	50W	

\* Center frequency can be tuned between 380-500 MHz

#### Navigation (Cable 2)

	2J6516B	2J6516BG
	2J6516M	2J6516MG
Frequencies	GPS (1575.42 MHz)	GPS (1575.42 MHz)
		GLONASS (1592 - 1610 MHz)
Impedance	5	0 Ohms
Noise figure	-	1.15dB
Polarization		RHCP
LNA Gain*	26dB at 3	3V, 27dB at 5V
VSWR		<1.2:1
Voltage supply	2.7	/V - 5.5V
Current	15m	A - 25mA
Power (max.)	1	38mW
Note	Filter	red antenna

\* Values are just for LNA without filter. With filter, output gain is 23dB at 3V and 24dB at 5V

#### Wifi (Cable 3)

Frequencies	TETRA (380 - 500 MHz)
	GPS (1575.42 MHz)
	WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Noise figure	1.15dB
Polarization	Vertical
Gain	2dBi
VSWR	<2:1

#### General

0.000	
Operating temperature	-40°C to +85°C
Certificates	IP67, IK09





# 2.2. Connection Specifications

Cable I (Tetra):	
Connector type:	FME male
Cable:	RG58
Cable length:	15 cm

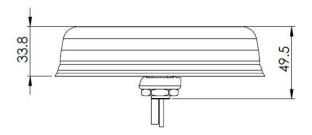
SMA male
RG174U
15 cm
SMA male
RG174U
15 cm

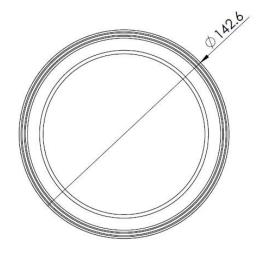
For different cable length and connector type ask our sales team.

### 2.3. Mechanical Specifications and Dimensions

### 2.3.1. Body mount (2J6516B/2J6516BG)

Material:	Lid: ABS / Base: Zamak / Gasket: TPE
Max. dimensions:	142.6mm x 49.5mm
Weight:	480 g 'weight counted with connection above'
Colour:	Black/ Green/ White (for different colours please ask our sales team)



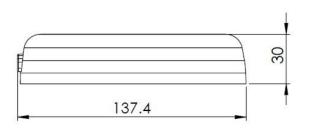


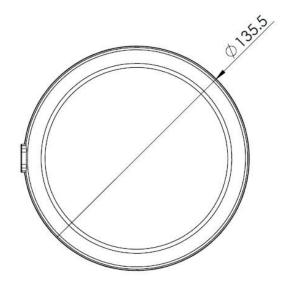




#### 2.3.2. Magnetic mount (2J6507M/2J6507MG)

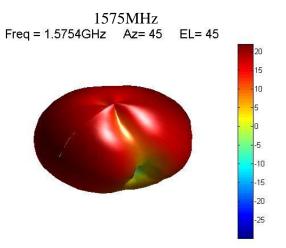
Material: Max. dimensions: Colour: Lid: ABS / Base: Zamak 137.4 mm x 30 mm Black/ Green/ White (for different colours please ask our sales team)





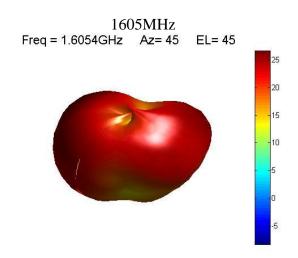
### **3. MEASUREMENT**

#### 3.1. 3D spherical



Measured at 20x20cm groundplane and with 3V power supply.

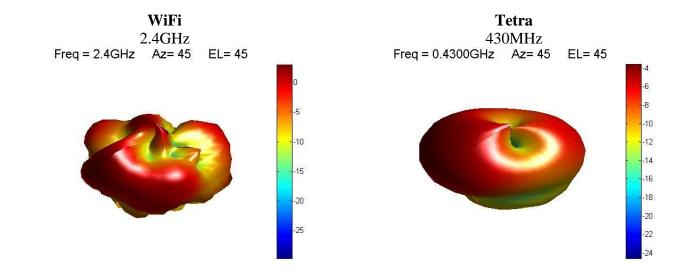
GNSS



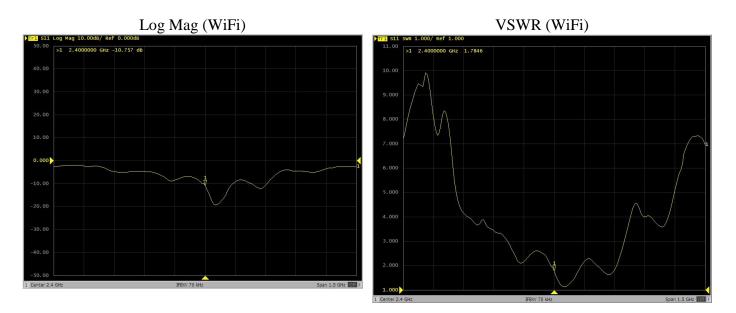
Measured at 20x20cm groundplane and with 3V power supply.





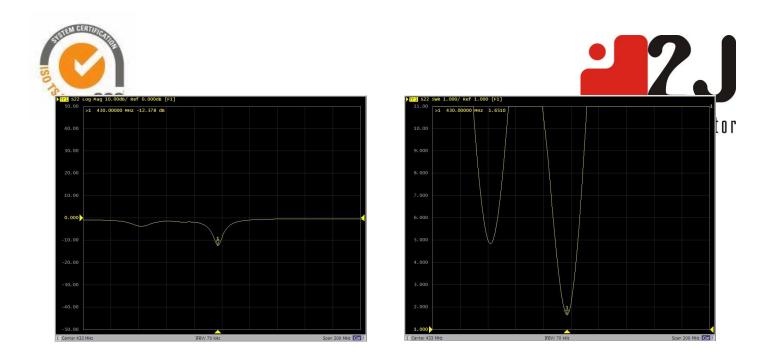


#### 3.2. S11

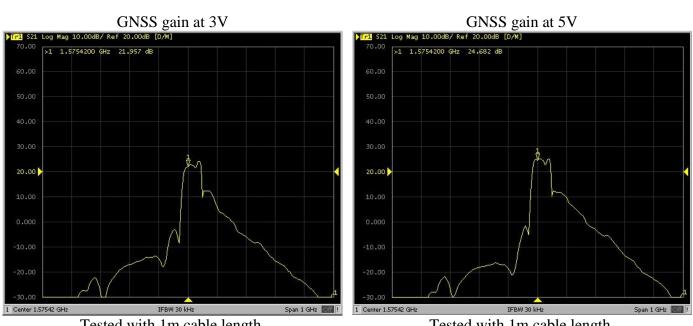


Log Mag (Tetra)

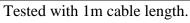
VSWR (Tetra)



#### 3.3. S21



Tested with 1m cable length.



# 4. IMAGES



