

# DATASHEET

<b>Type</b>	Combined Antenna
<b>Frequencies</b>	TETRA (380 - 500 MHz) GPS (1575.42 MHz) GLONASS (1592 - 1610 MHz)
<b>Mounting</b>	Body Mount
<b>Part No.</b>	<b>2J857B</b> <b>2J857BG</b>
<b>Revision</b>	00



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## 1. PRODUCT SELECTOR

<b>2J857B</b>	GPS L1 version
<b>2J857BG</b>	GPS/GLONASS version

## 2. SPECIFICATION

### 2.1. Electrical Specifications

#### Tetra (Cable 1)

Frequencies	TETRA (380 - 500 MHz)
Impedance	50 Ohms
Polarization	Vertical
Gain	2dBi
VSWR	<2:1
Power handling	30W
Operating temperature	-40°C to +85°C

#### Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz) GLONASS (1592 - 1610 MHz)
Impedance	50 Ohms
Polarization	RHCP
LNA Gain	26dB at 3V, 27dB at 5V
VSWR	<1.2:1
Voltage supply	2.7V - 5.5V
Current	15mA - 25mA
Power (max.)	138mW
Operating temperature	-40°C to +85°C

## 2.2. Connection Specifications

### 2.2.1. Default (recommended)

Cable 1 (Tetra):  
 Connector type: FME female  
 Cable: RG174U  
 Cable length: 250 cm

Cable 2 (Navigation):  
 Connector type: SMA male  
 Cable: RG174U  
 Cable length: 250 cm

### 2.2.2. Optional

Suitable cables: RG174, RG316  
 Cable length: min. 250 cm  
 Suitable connectors: All connectors suitable for cables above

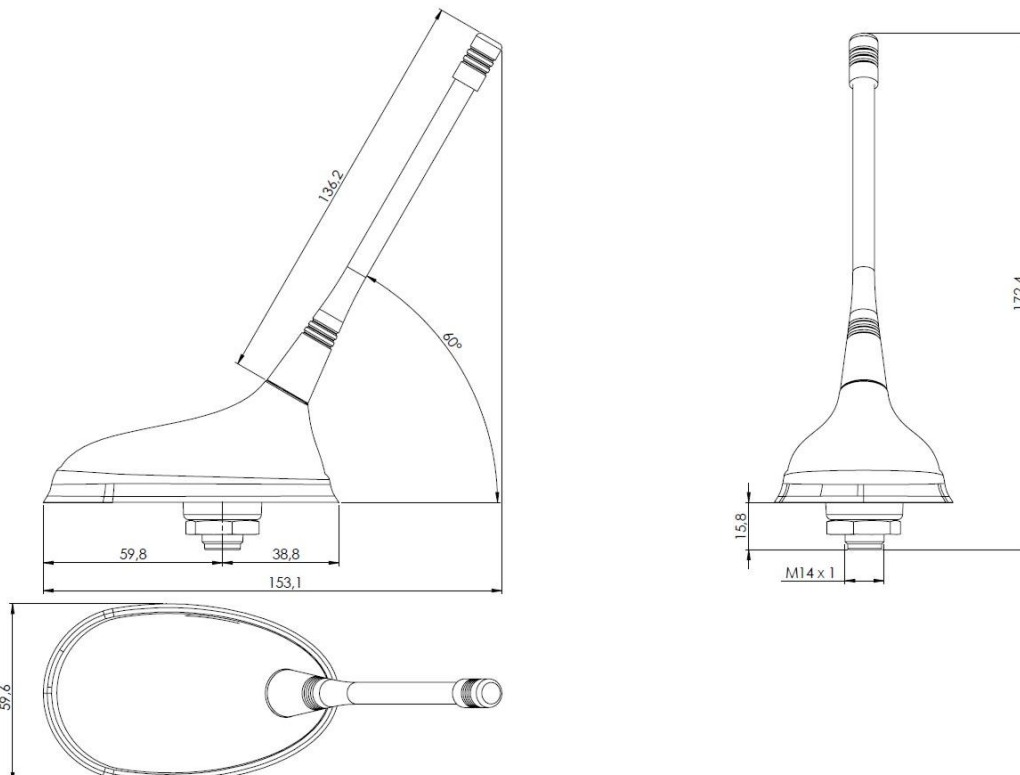
## 2.3. Mechanical Specifications and Dimensions

### 2.3.1. Mounting Type

- Body Mount

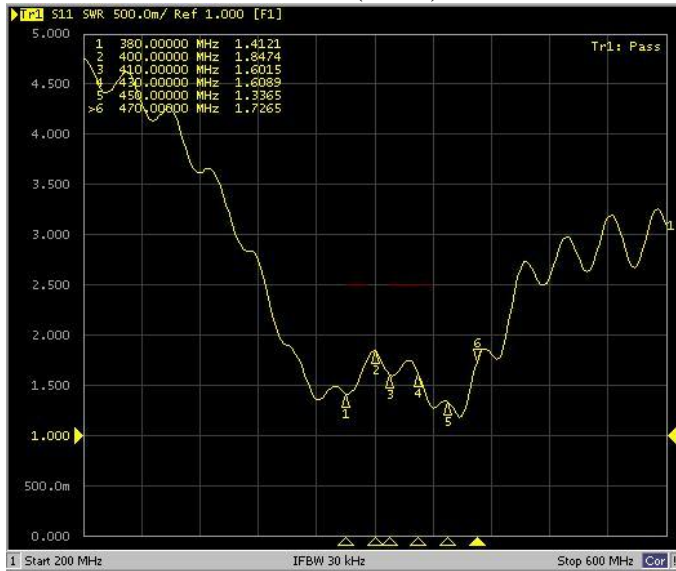
### 2.3.2. Body mount

Material: ABS / Zamak / TPE  
 Max. dimensions: 175mm x 153mm x 59.5mm  
 Weight: 223 g ‘counted with default connection’  
 Colour: Black (for different colours please ask our sales team)



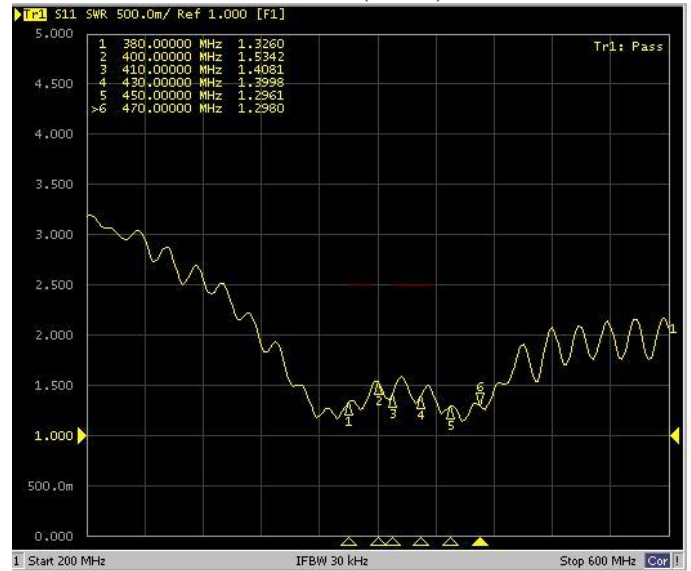
### 3. MEASUREMENT

VSWR (Tetra)



Tested with 3m cable length

VSWR (Tetra)



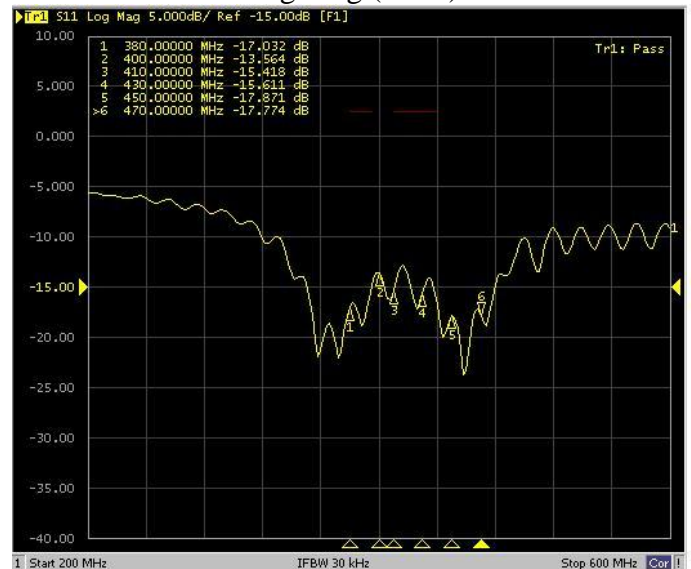
Tested with 5m cable length

Log Mag (Tetra)



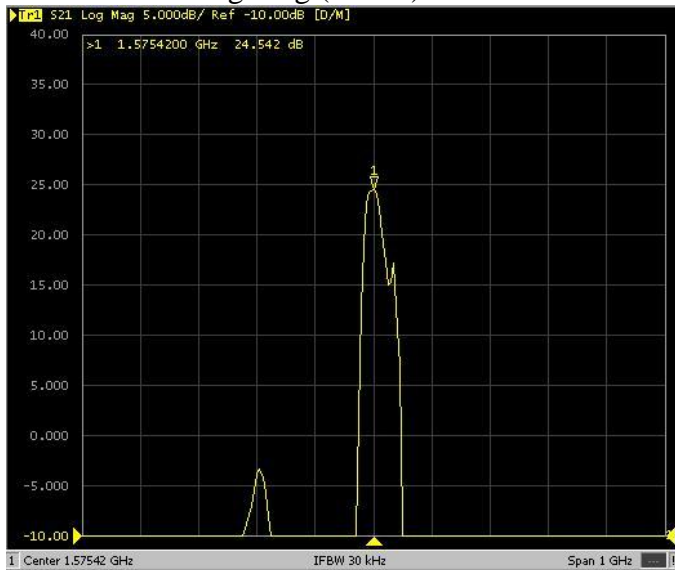
Tested with 3m cable length

Log Mag (Tetra)



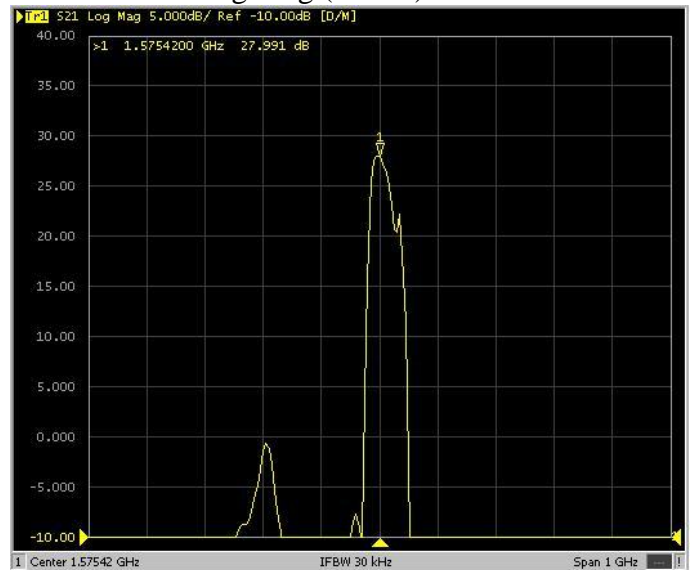
Tested with 5m cable length

Log Mag (GNSS) at 3V



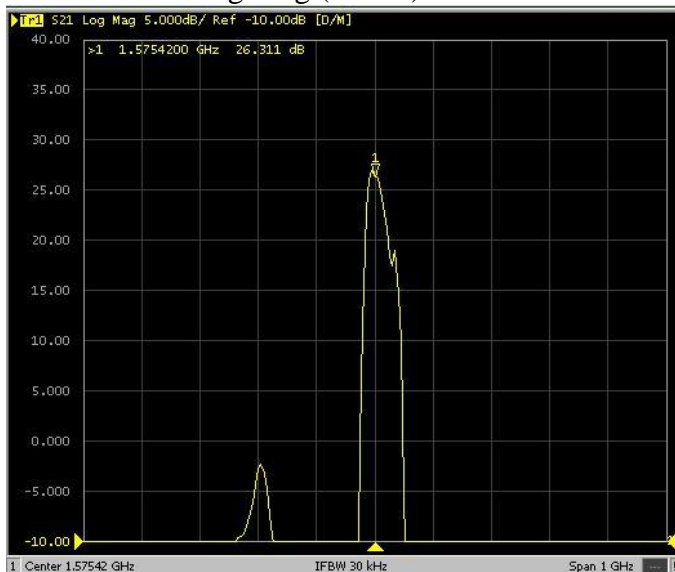
Tested with 5m cable length

Log Mag (GNSS) at 3V



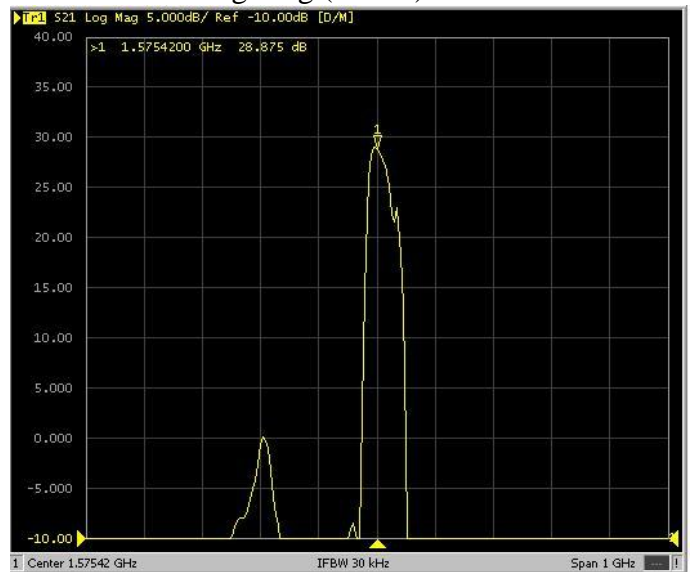
Tested with 3m cable length

Log Mag (GNSS) at 5V



Tested with 5m cable length

Log Mag (GNSS) at 5V



Tested with 3m cable length

## 4. IMAGES

