

# DATASHEET

<b>Type</b>	Combined Antenna
<b>Frequencies</b>	GSM (900 MHz) GPS (1575.42 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
<b>Mounting</b>	Any Surface Glass Mount Patch Mount
<b>Part No.</b>	<b>2J425</b>
<b>Revision</b>	00





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## 1. SPECIFICATION

### 1.1. Electrical Specifications

#### Navigation (Cable 1)

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

#### Mobile (Cable 2)

Frequencies	GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
Impedance	50 Ohms
Polarization	Horizontal
Gain	0dBi
VSWR	<2:1
Power handling	35W
Operating temperature	-40°C to +85°C

## 1.2. Connection Specifications

### 1.2.1. Default (recommended)

Cable 1 (Navigation):

Connector type: SMA male

Cable: RG174U

Cable length: 250 cm

Cable 2 (Mobile):

Connector type: FME female

Cable: RG174U

Cable length: 250 cm

### 1.2.2. Optional

Suitable cables: RG174, RG316

Cable length: min. 250 cm

Suitable connectors: All connectors suitable for cables above

## 1.3. Mechanical Specifications and Dimensions

### 1.3.1. Mounting Type

- Any Surface
- Glass Mount
- Patch Mount

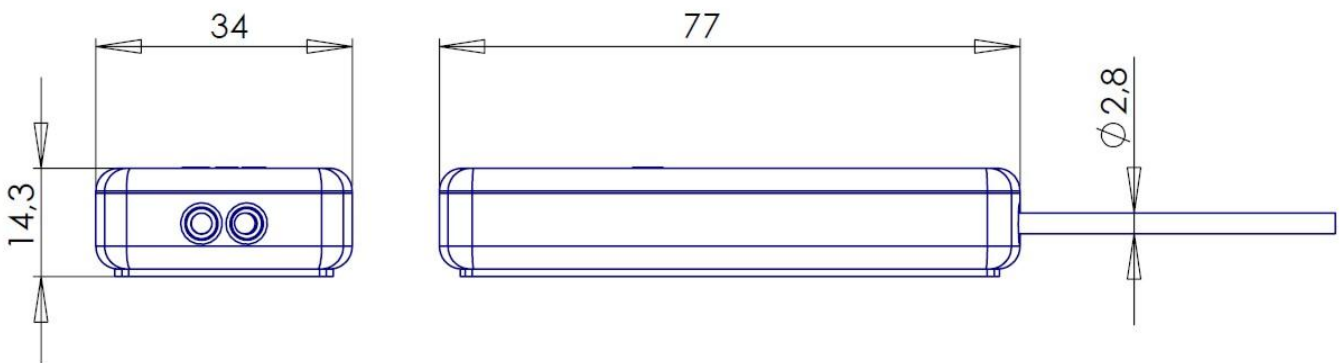
### 1.3.2. Any Surface

Material: ABS

Dimensions: 13.5mm x 77.1mm x 34.4mm (H x L x W)

Weight: 115 g 'counted with default connection'

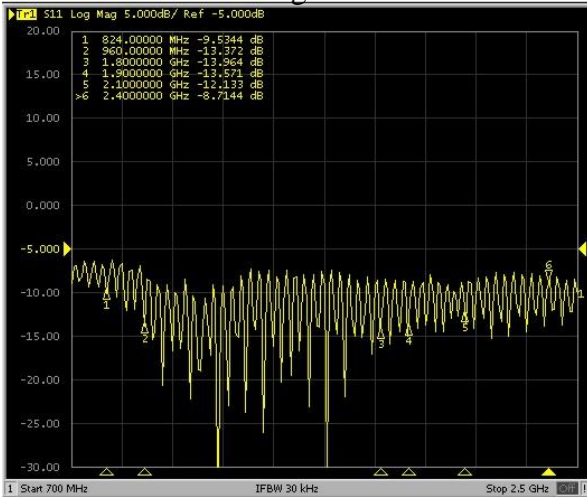
Colour: Black (for different colours please ask our sales team)



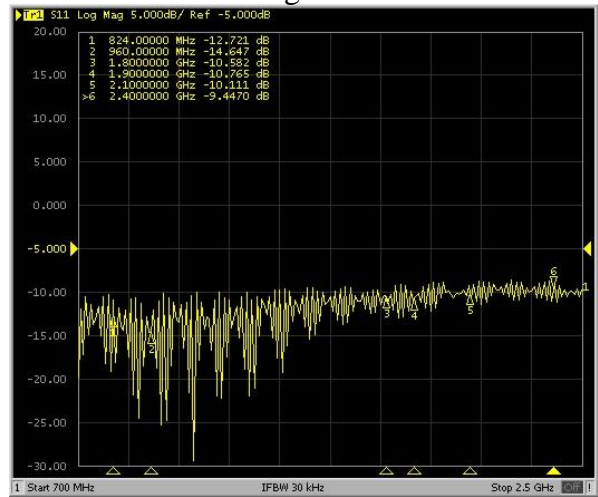
## 2. MEASUREMENT

Log Mag (Quad band):

Tested with 3m cable length RG174

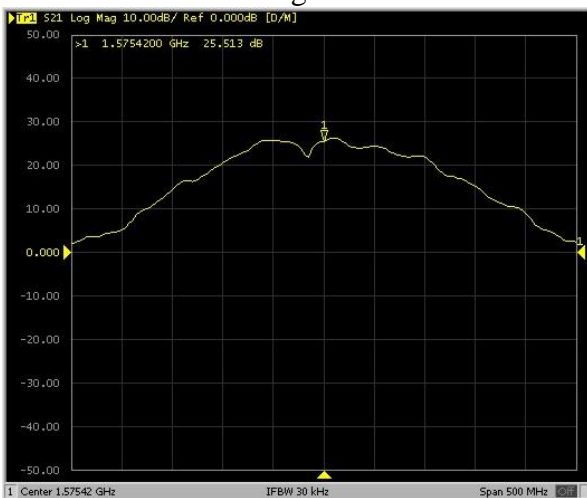


Tested with 5m cable length RG174

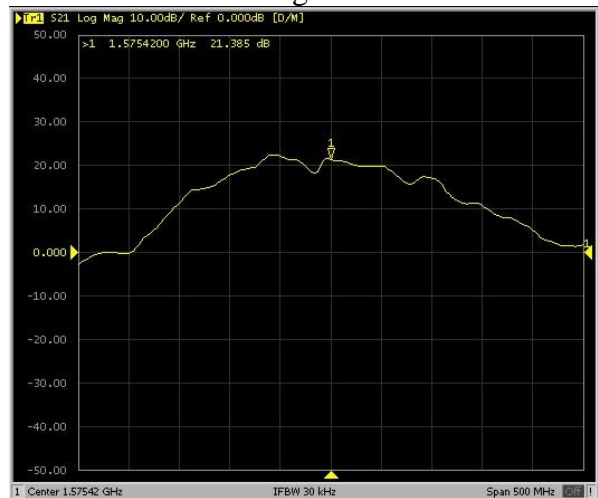


Log Mag (GNSS) at 3V:

Tested with 3m cable length RG174

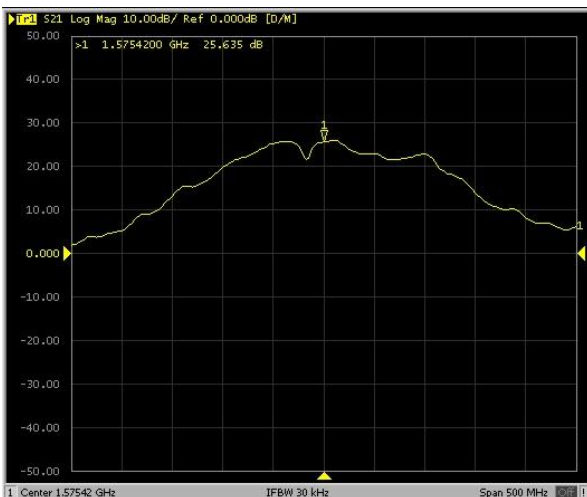


Tested with 5m cable length RG174



Log Mag (GNSS) at 5V:

Tested with 3m cable length RG174



Tested at 5m cable length RG174

