

# 2J425PCB 2J425GPCB (DATASHEET)

<b>Type</b>	Combined Antenna
<b>Frequencies</b>	GSM (900 MHz) GPS (1575.42 MHz) GLONASS (1592 - 1610 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
<b>Mounting</b>	Embedded
<b>Revision</b>	00



  
P. Tipul

## 1. SPECIFICATION

### 1.1. *Electrical Specifications*

#### Navigation (Cable 1)

	<b>2J425PCB</b>	<b>2J425GPCB</b>
Frequencies	GPS (1575.42 MHz)	GPS (1575.42 MHz) GLONASS (1592 - 1610 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*

Cable 1 (Navigation):

Connector type: SMA male  
Cable: RG174U  
Cable length: 250 cm

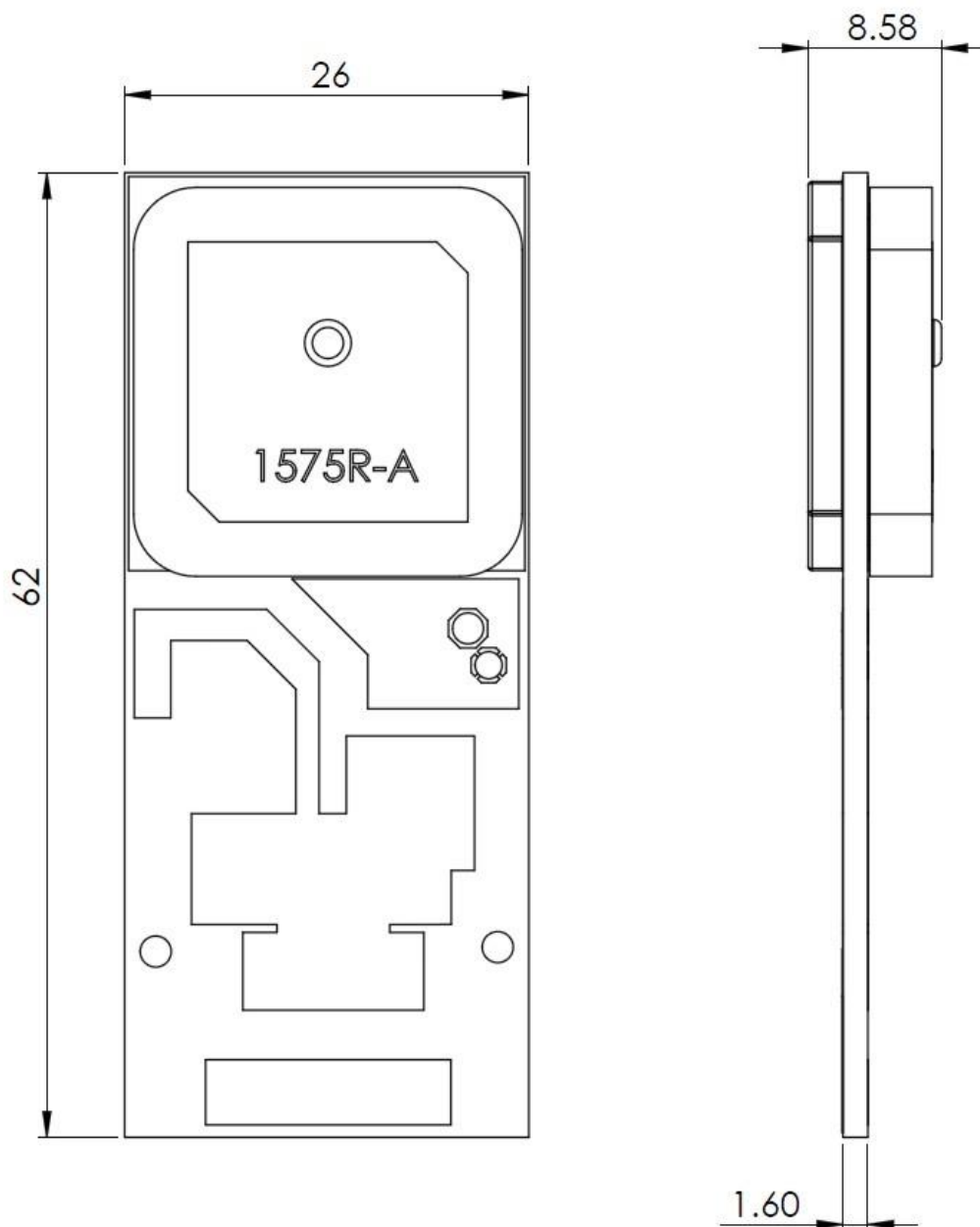
Cable 2 (Mobile):

Connector type: FME female  
Cable: RG174U  
Cable length: 250 cm

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

### 1.3. Mechanical Specifications and Dimensions

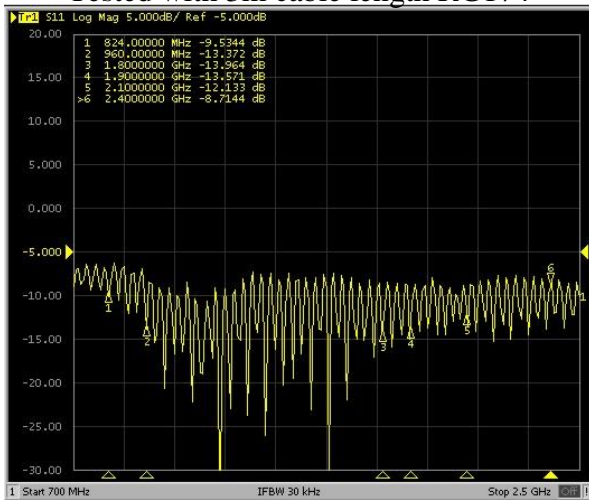
Material:	FR4
Dimensions:	8.58mm x 62mm x 26mm (H x L x W)
Weight:	16.5 g 'without cable '
Colour:	Green



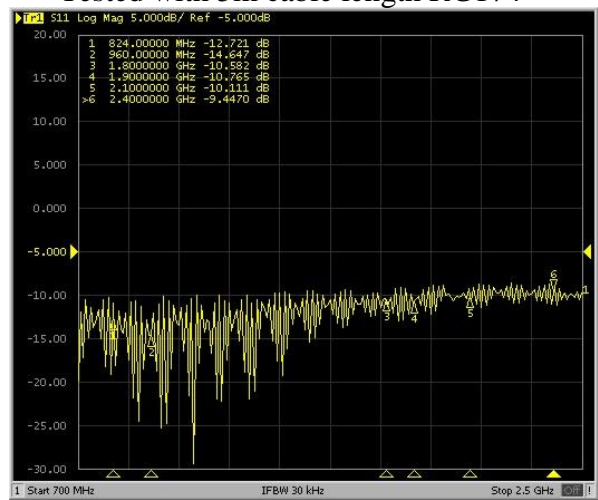
## 2. MEASUREMENT

Log Mag (Quad band):

Tested with 3m cable length RG174

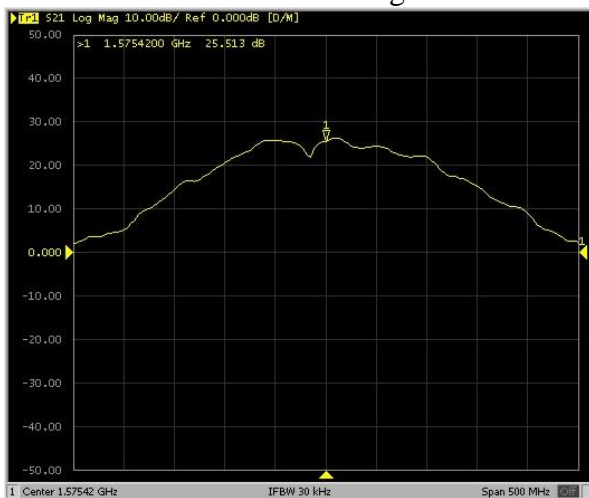


Tested with 5m cable length RG174

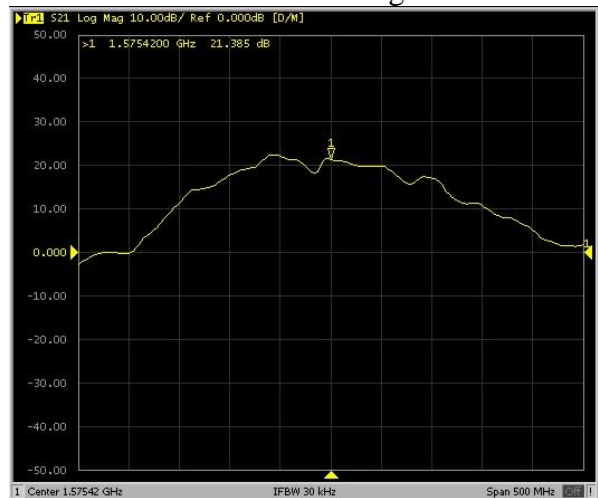


Log Mag (GNSS) at 3V:

Tested with 3m cable length RG174

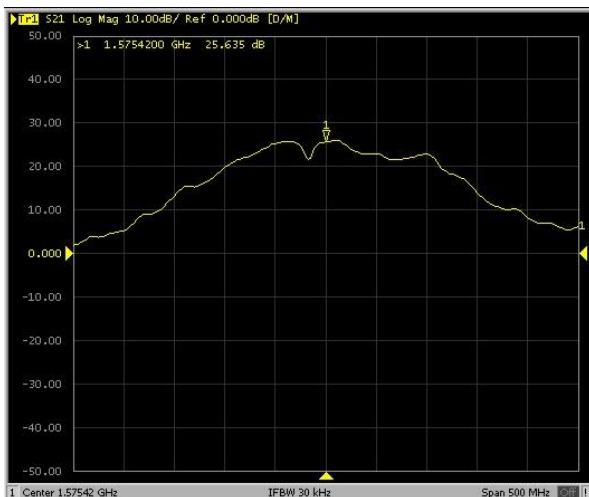


Tested with 5m cable length RG174



Log Mag (GNSS) at 5V:

Tested with 3m cable length RG174



Tested at 5m cable length RG174

