

DATASHEET

Type	Combined antenna
Frequencies	AMPS (824-894 MHz) ISM (868 MHz) GSM (900 MHz) GPS/GLONASS (1572-1610 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz)
Mounting	Any Surface Magnetic Mount Patch Mount
Part No.	2J630MP
Revision	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
VSWR	<1.2:1
Voltage supply	2.7V - 5.5V
Current	15mA - 25mA
Power (max.)	138mW
Operating temperature	-40°C to +85°C

Mobile (Cable2)

Frequencies	AMPS (824-894 MHz) ISM (868 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	HORIZONTAL
Gain	0dBi
VSWR	<2:1
Power handling	50W
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

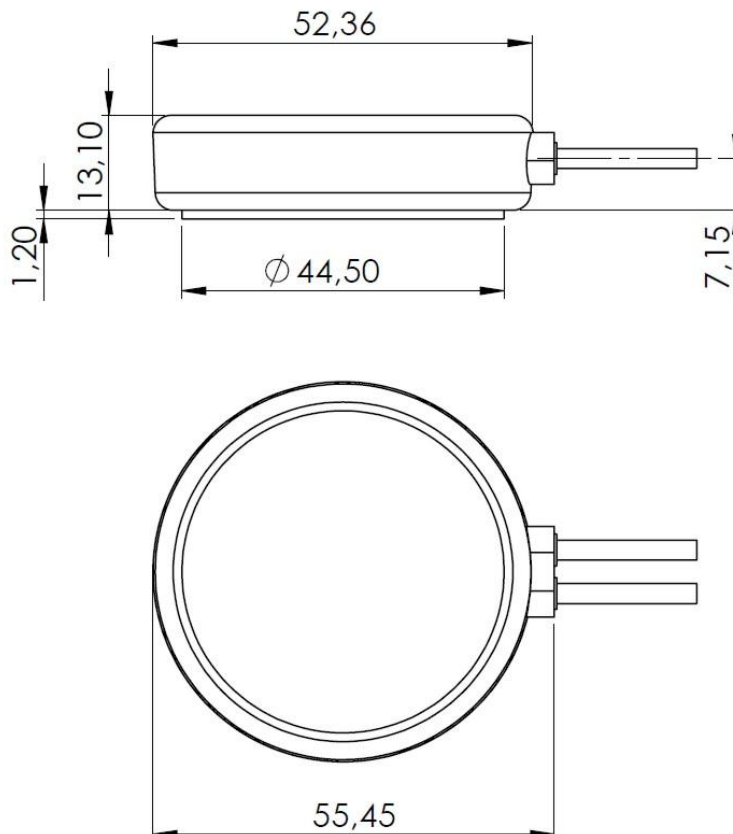
1.2.2. Optional

Suitable cables: RG174, RG316
Cable length: min. 80 cm
Suitable connectors: All connectors suitable for cables above

1.3. Mechanical Specifications and Dimensions

1.3.1. Magnetic/Patch mount

Material: ABS
Max dimensions: 52.5mm x 13mm
Weight: 50 g 'counted with default connection'
Colour: Black (for different colours please ask our sales team)



2. MEASUREMENT

2.1. Set for Measurements

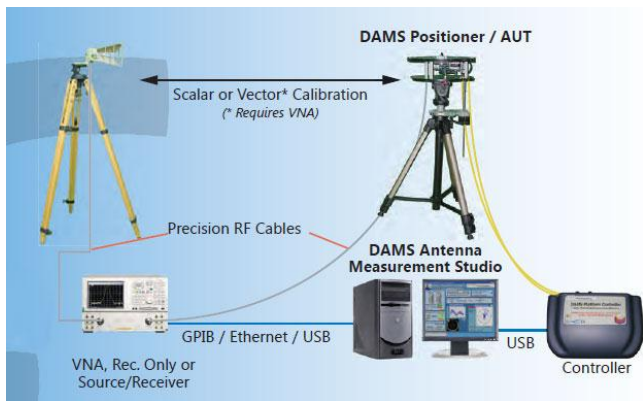
2.1.1. GNSS

Connection:	Used default cable length and connection.
Temperature:	25 °C
Input power:	0 dBm
Voltage Supply:	3V

2.1.2. GSM

Temperature:	25 °C
Input power:	0 dBm

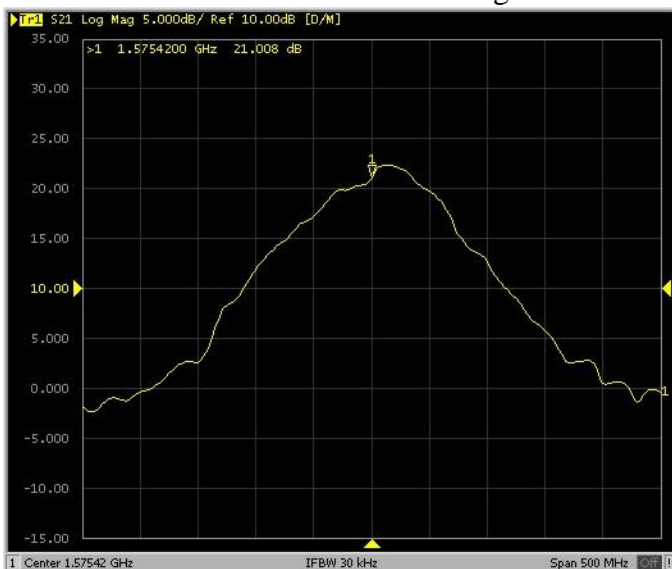
DAMS positioner with AUT and reference antenna are placed in anechoic chamber



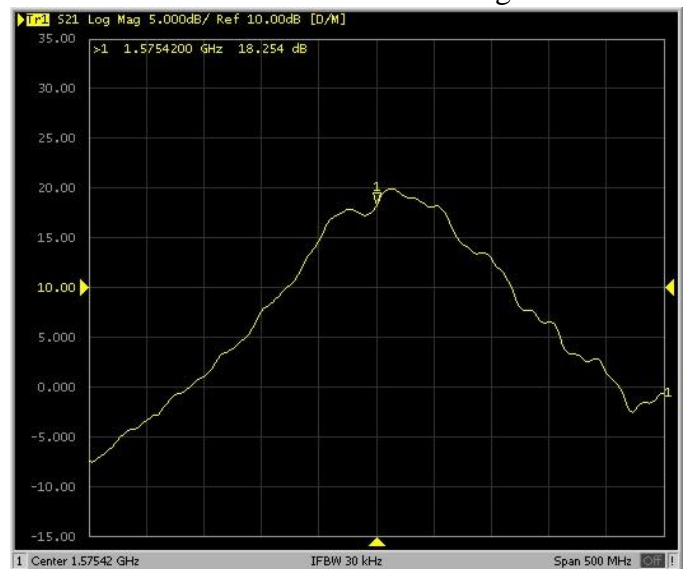
1.1. Electrical Characteristics

LOG MAG (GNSS):

Tested with 3m cable length

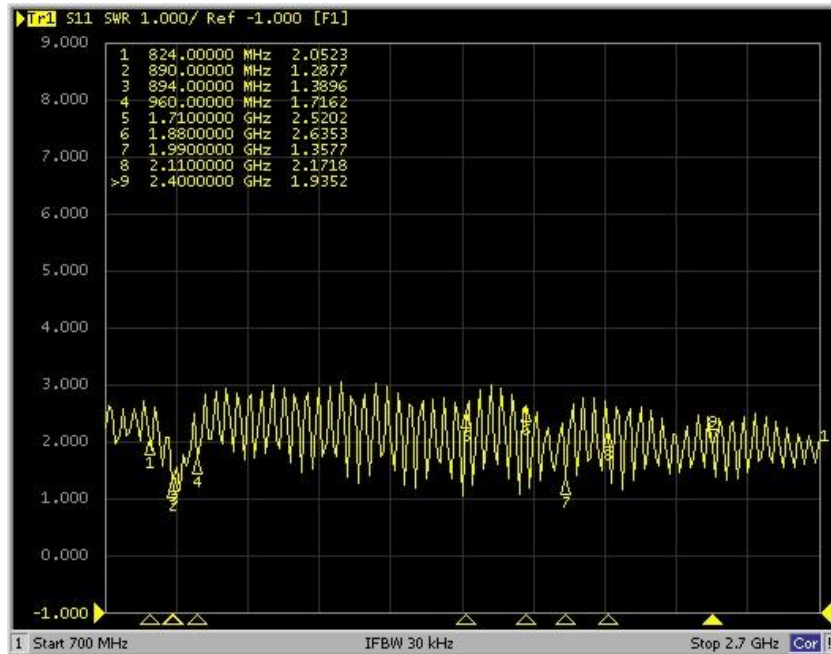


Tested with 5m cable length

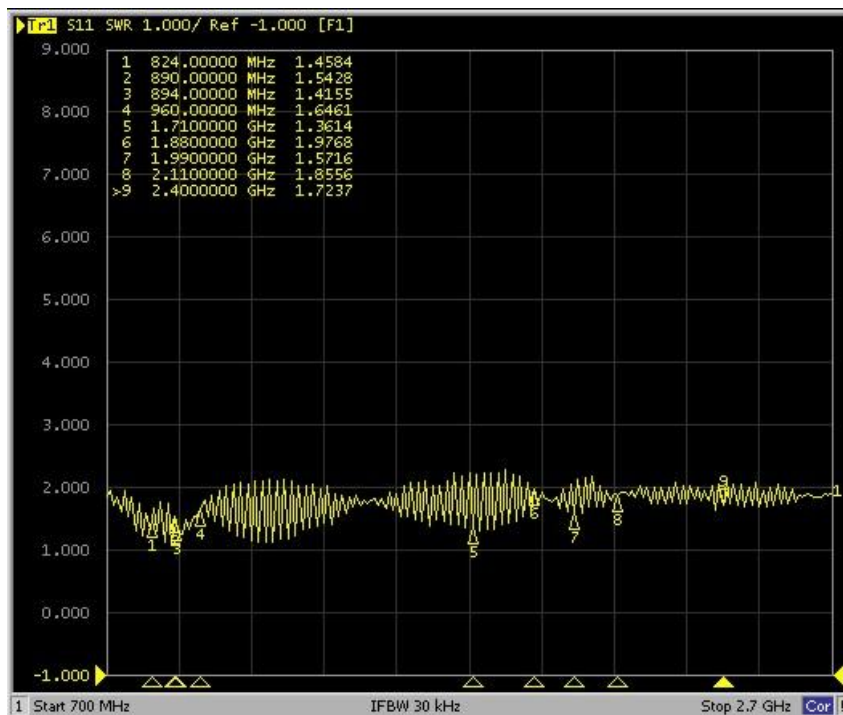


LOG MAG (Quad Band):

Tested with 3m cable length

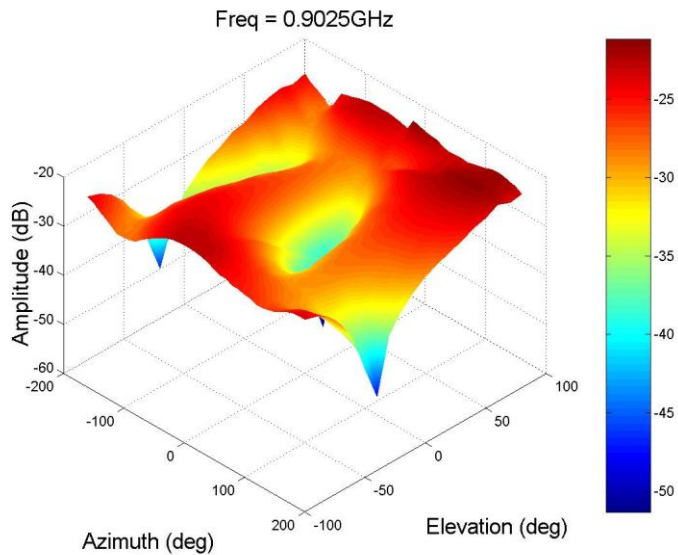


Tested with 5m cable length

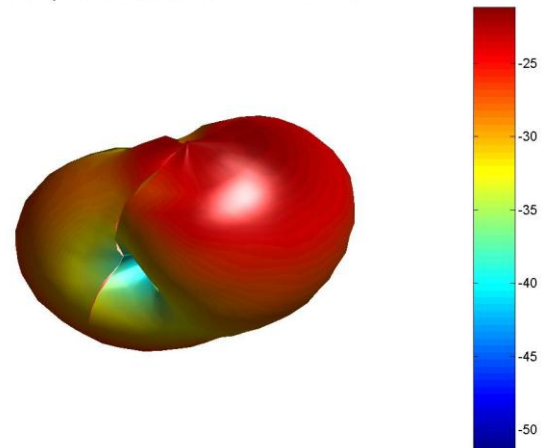


1.2. Radiation Patterns

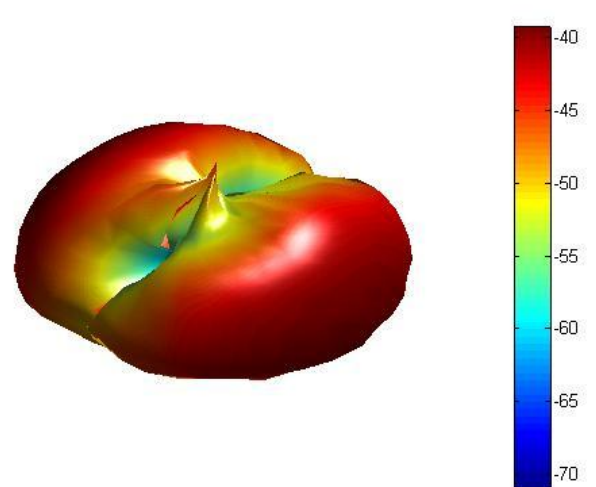
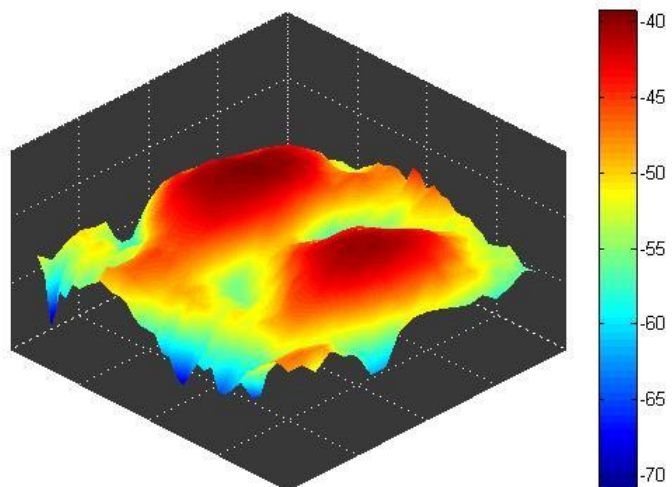
900MHz



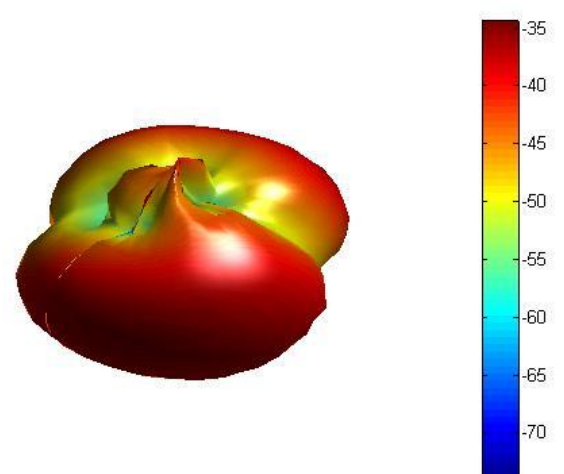
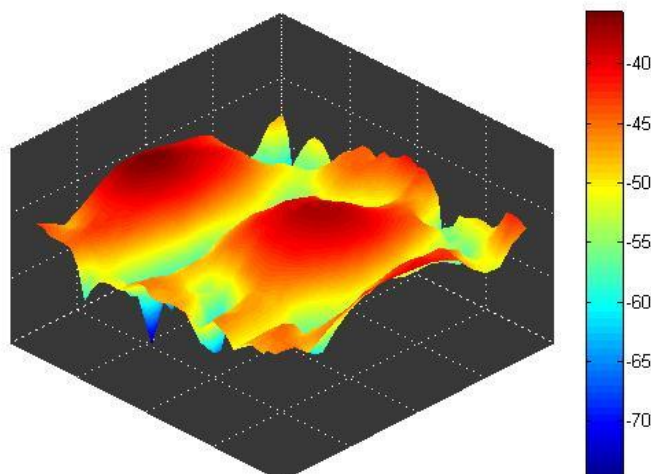
Freq = 0.9025GHz Az= 45 EL= 45



1800MHz



1900MHz



2. MOUNTINGS

- Patch version need clean flat surfaces
- Magnetic version can be on any magnetic materials

3. IMAGES

