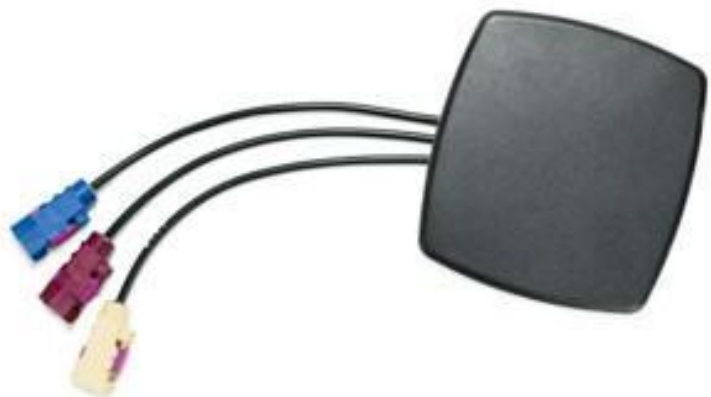


DATASHEET

Type	Combined Antenna
Frequencies	AMPS (824-894 MHz) ISM (868 MHz) GSM (900 MHz) GPS (1575.42 MHz) GLONASS (1592 - 1610 MHz) DCS (1800 MHz) WIFI / BLUETOOTH (2.4 GHz)
Mounting	Body Mount
Part No.	2J640B/BG
Revision	00





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1. PRODUCT SELECTOR

- 2J640B** GPS L1 version
2J640BG GPS/GLONASS version

2. SPECIFICATION

2.1. Electrical Specifications

Navigation (Cable 1)

Frequencies	GPS (1575.42 MHz) or GPS/GLONASS (1572 - 1610 MHz)
Impedance	50 Ohms
Polarization	RHCP
LNA Gain	26 dB (3V) and 27dB (5V)
Voltage supply	2.7V - 5.5V
Current	15mA - 25mA
Power (max.)	138mW
Operating temperature	-40°C to +85°C

Wifi (Cable 2)

Frequencies	WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	HORIZONTAL
Gain	0dBi
VSWR	<2:1
Power handling	25W
Operating temperature	-40°C to +85°C



Mobile (Cable 3)

Frequencies	AMPS (824-894 MHz) ISM (868 MHz) GSM (900 MHz) DCS (1800 MHz)
Impedance	50 Ohms
Polarization	HORIZONTAL
Gain	0dBi
VSWR	<2:1
Power handling	25W
Operating temperature	-40°C to +85°C

2.2. Connection Specifications

2.2.1. Default (recommended)

Cable 1 (Navigation):

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

Cable 2 (Wi-Fi):

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

Cable 3 (Mobile):

Connector type: FME female
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

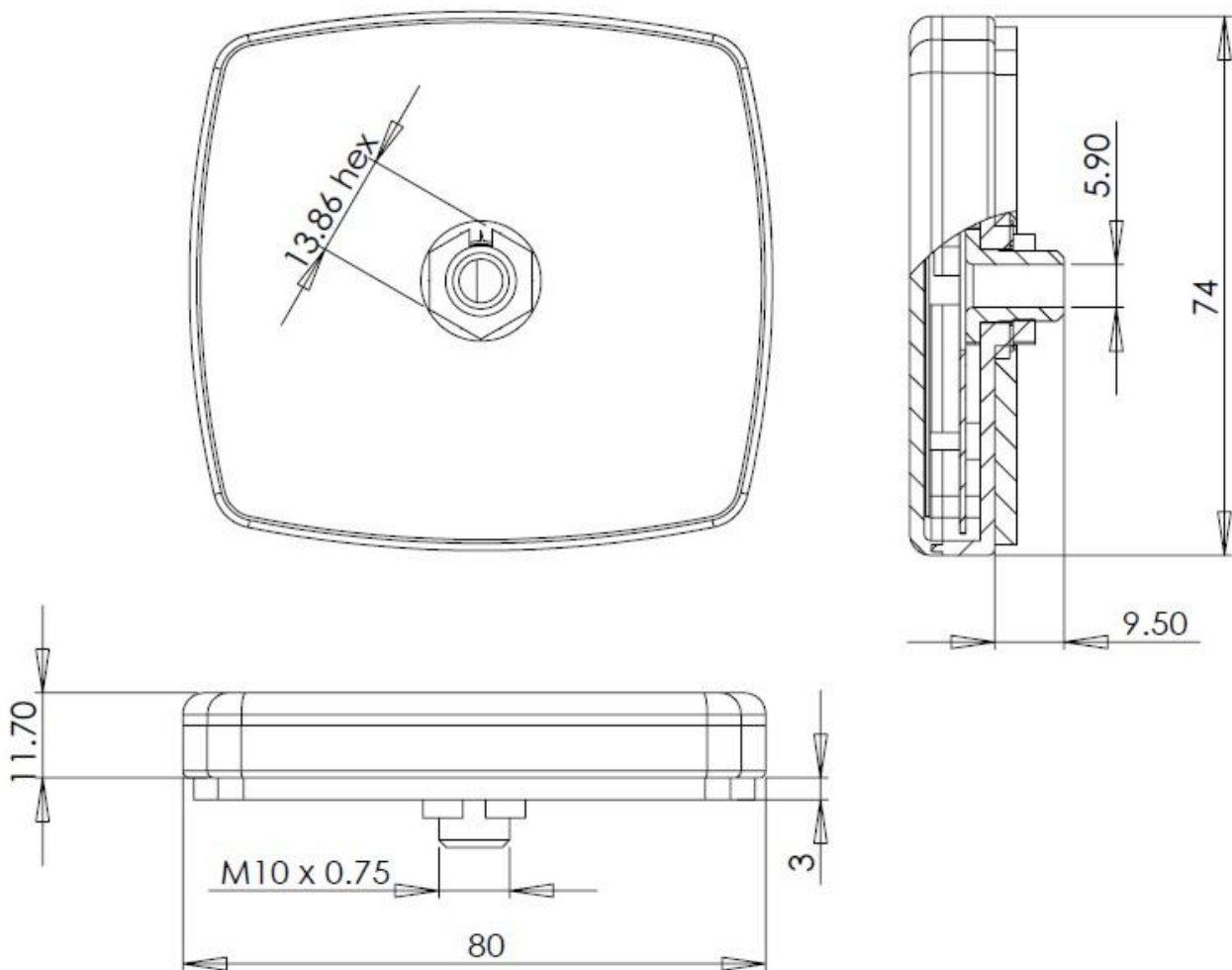
2.3. Mechanical Specifications and Dimensions

2.3.1. Mounting Type

- Body Mount

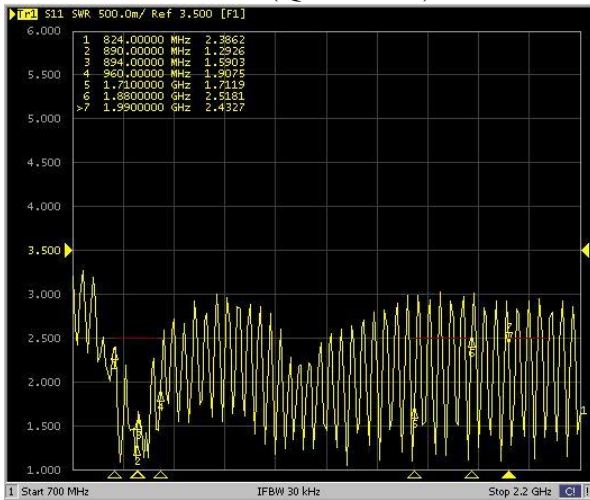
2.3.2. Body mount

Material:	ABS
Max. dimensions:	21.5mm x 80.5mm x 74.5mm
Weight:	190 g 'counted with default connection'
Colour:	Black (for different colours please ask our sales team)



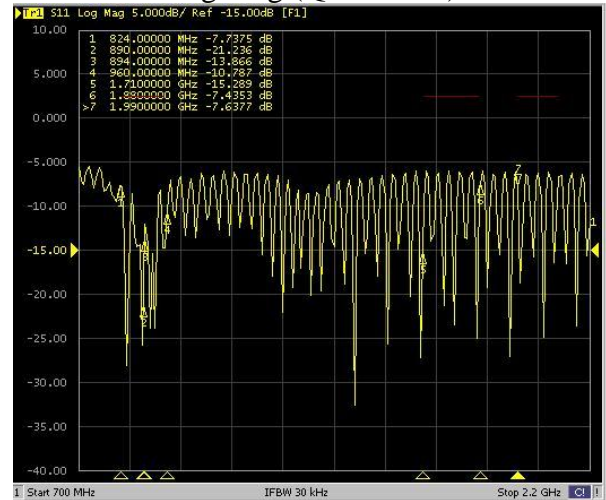
3. MEASUREMENT

VSWR (Quad Band)



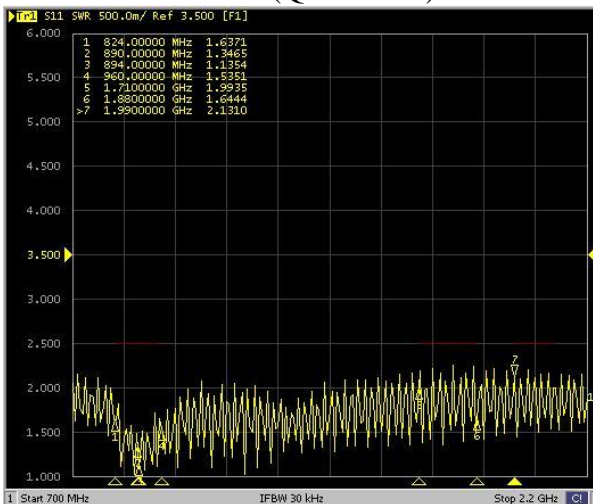
Tested with 3m cable length

Log Mag (Quad Band)



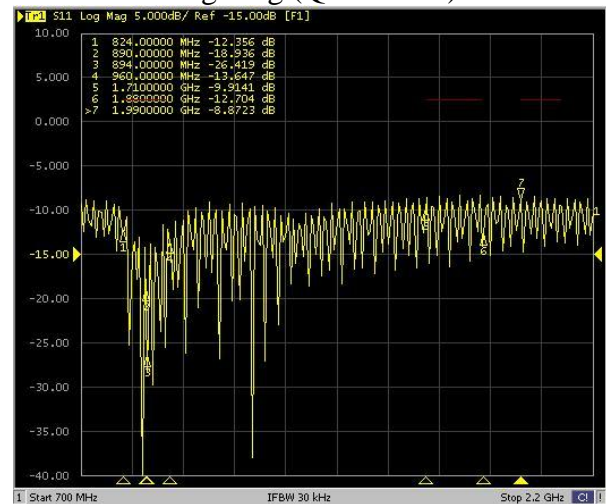
Tested with 3m cable length

VSWR (Quad Band)



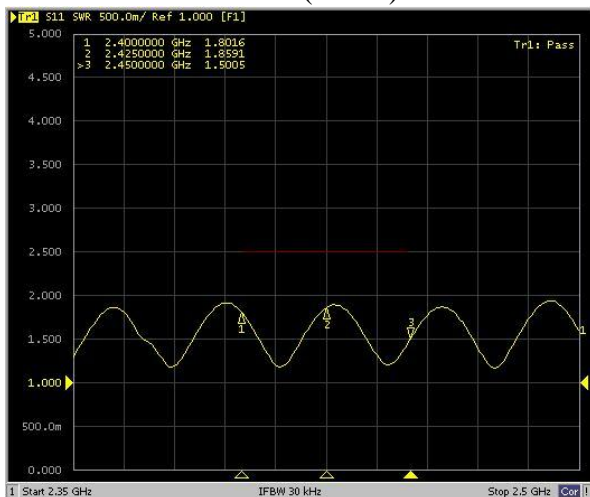
Tested with 5m cable length

Log Mag (Quad Band)



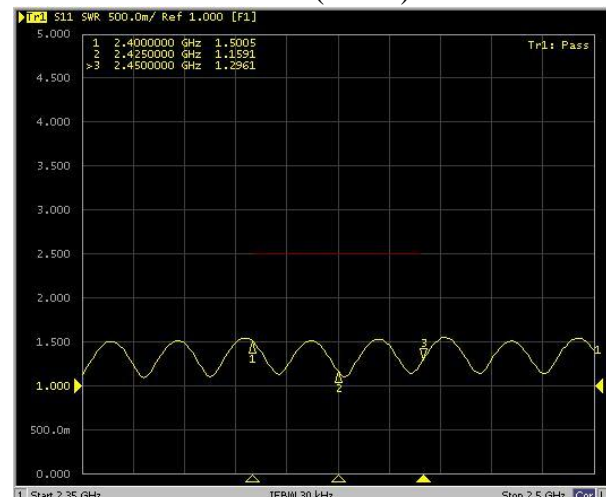
Tested with 5m cable length

VSWR (Wi-Fi)



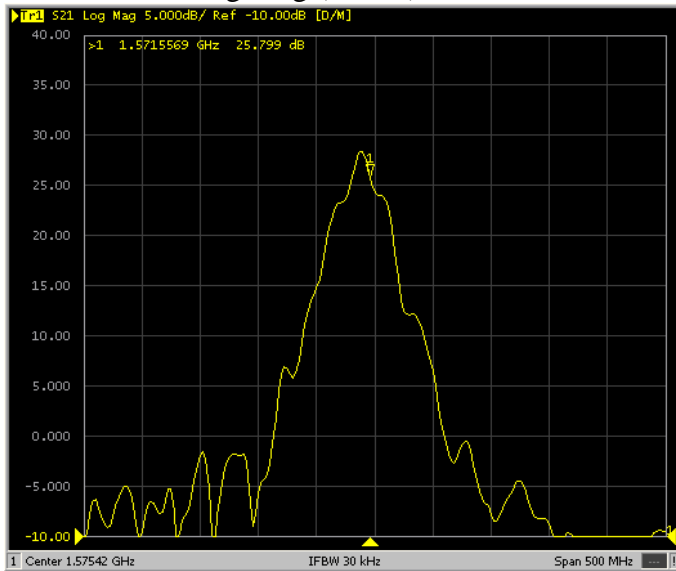
Tested with 3m cable length

VSWR (Wi-Fi)



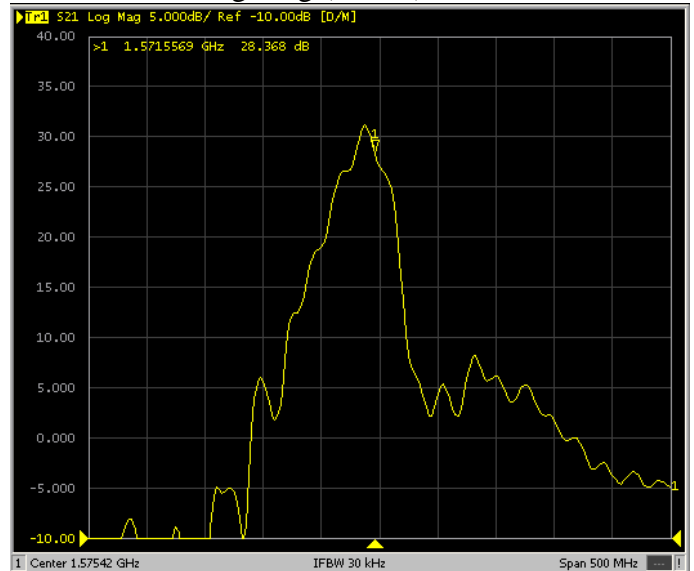
Tested with 5m cable length

Log Mag (GNSS) at 3V



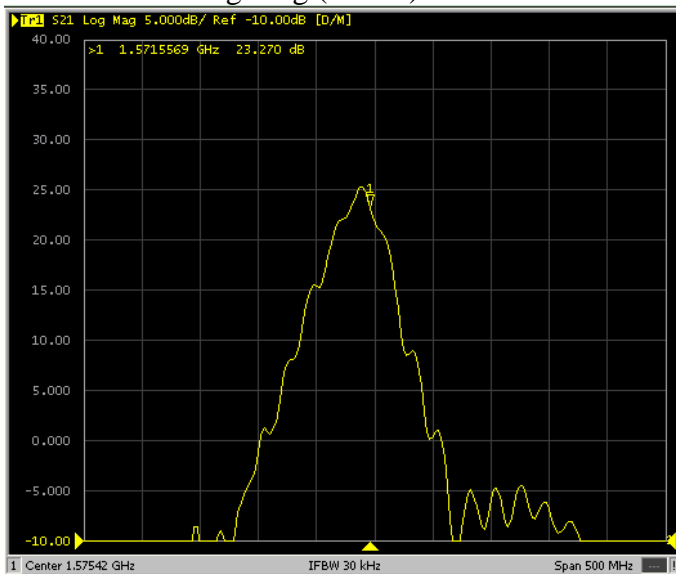
Tested with 3m cable length

Log Mag (GNSS) at 5V



Tested with 3m cable length

Log Mag (GNSS) at 3V



Tested with 5m cable length

Log Mag (GNSS) at 5V



Tested with 5m cable length

4. IMAGES

