

DATASHEET

Type	Combined antenna
Frequencies	TETRA (380 - 500 MHz) AMPS (824-894 MHz) GPS (1575.42 MHz) DCS (1800 MHz) PCS (1900 MHz) WIFI / BLUETOOTH (2.4 GHz)
Mounting	Body Mount
Part No.	2J858B 2J858BG
Revision	00





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1. PRODUCT SELECTOR

2J858B GPS L1 version
2J858BG GPS/GLONASS version

2. SPECIFICATION

2.1. Electrical Specifications

Navigation (Cable 1)

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

Mobile (Cable 2)

Frequencies	AMPS (824-894 MHz) DCS (1800 MHz) PCS (1900 MHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	2.2dBi
VSWR	<2:1
Operating temperature	-40°C to +85°C



Tetra (Cable 3)

Frequencies	TETRA (380 - 500 MHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	2dBi (max)
VSWR	<2:1
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: 30 cm

Cable 2 (Mobile):

Connector type: FME female
Cable: RG174U
Cable length: 30 cm

Cable 3 (Tetra):

Connector type: FME female
Cable: RG174U
Cable length: 30 cm

2.2.2. Optional

Suitable cables: RG174, RG316
Cable length: min. 30 cm
Suitable connectors: All connectors suitable for cables above

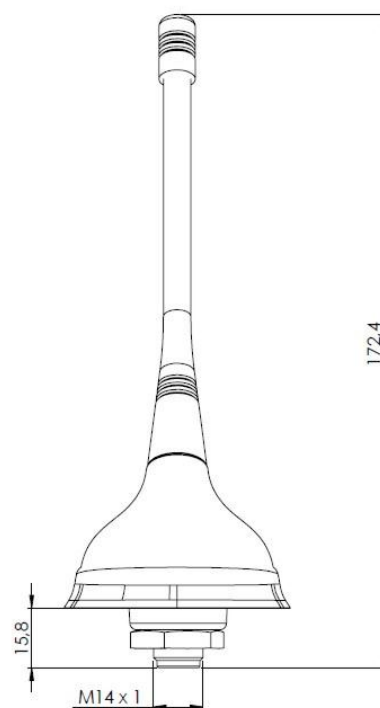
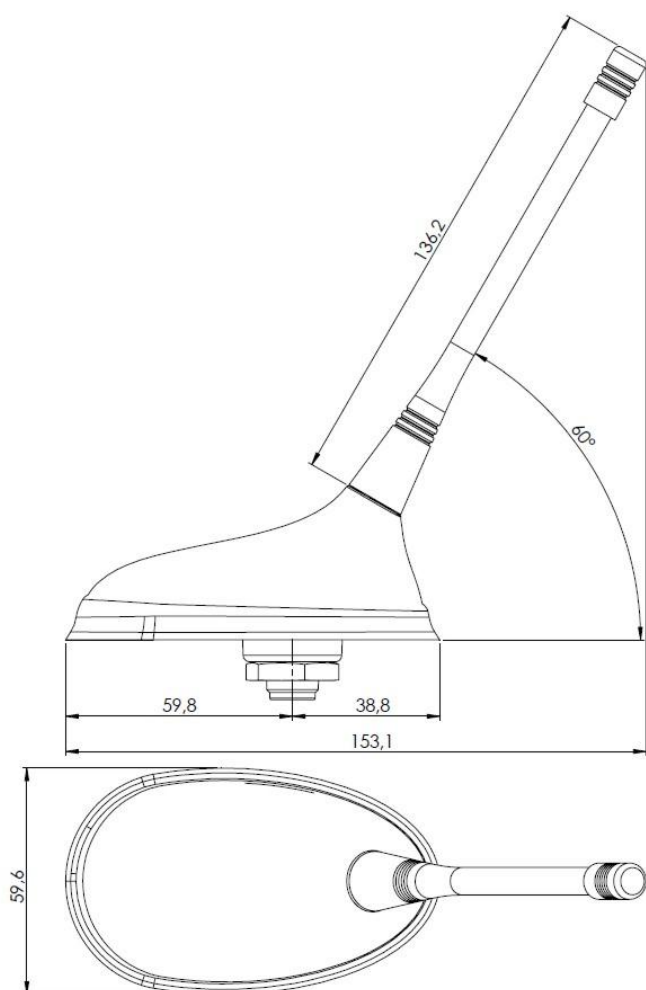
2.3. Mechanical Specifications and Dimensions

2.3.1. Mounting Type

- Body Mount

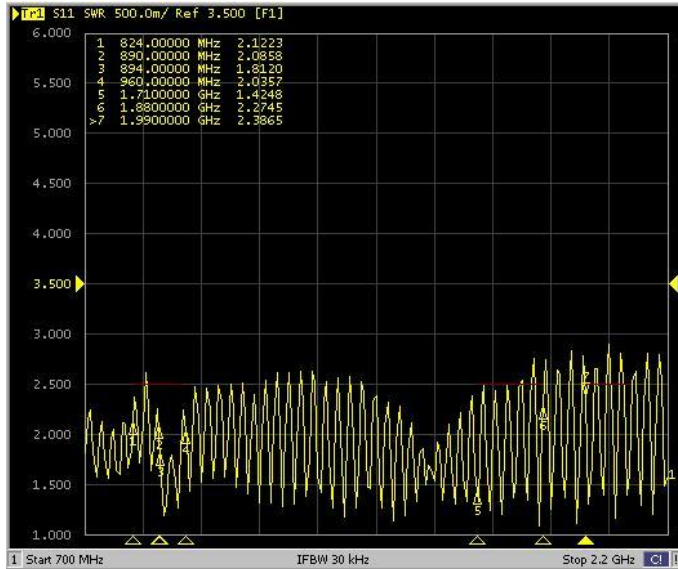
2.3.2. Body mount

Material: Lid: ABS / Base: Zamak / Gasket: TPE
Max. dimensions: 175mm x 98mm x 58mm
Weight: 268 g 'counted with default connection'
Colour: Black (for different colours please ask our sales team)



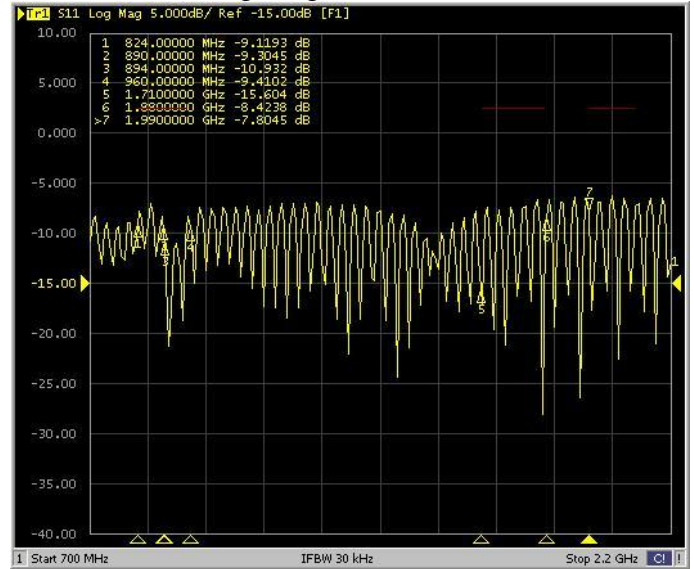
3. MEASUREMENT

VSWR (Quad Band)



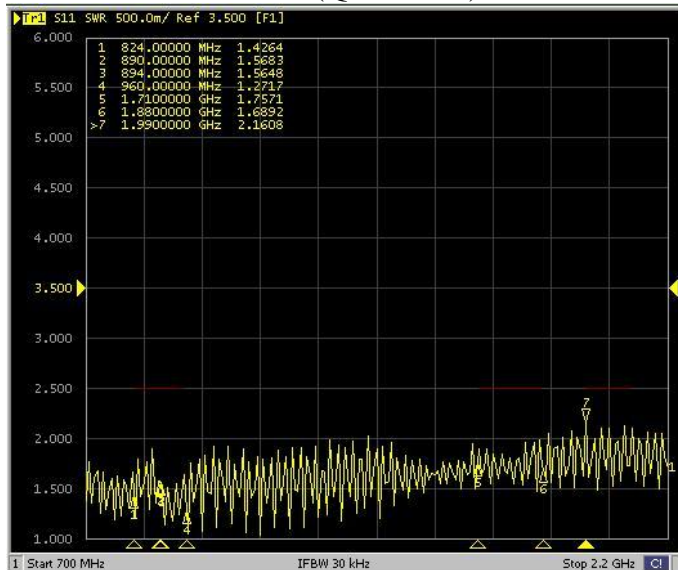
Tested with 3m cable length

Log Mag (Quad Band)



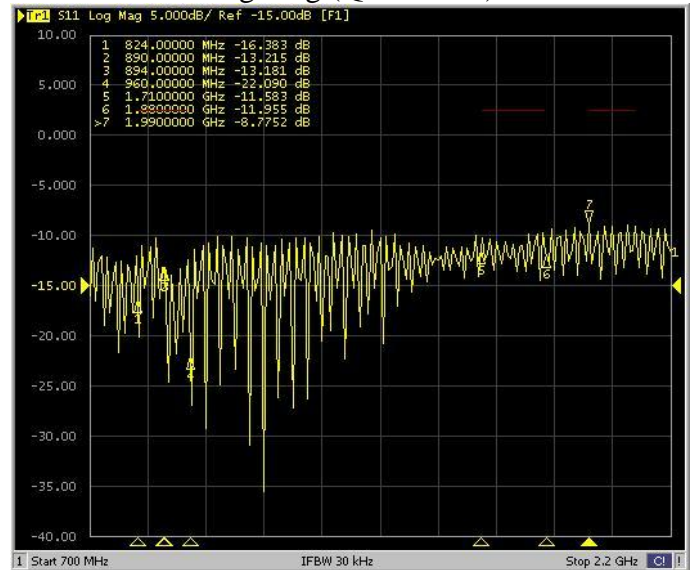
Tested with 3m cable length

VSWR (Quad Band)



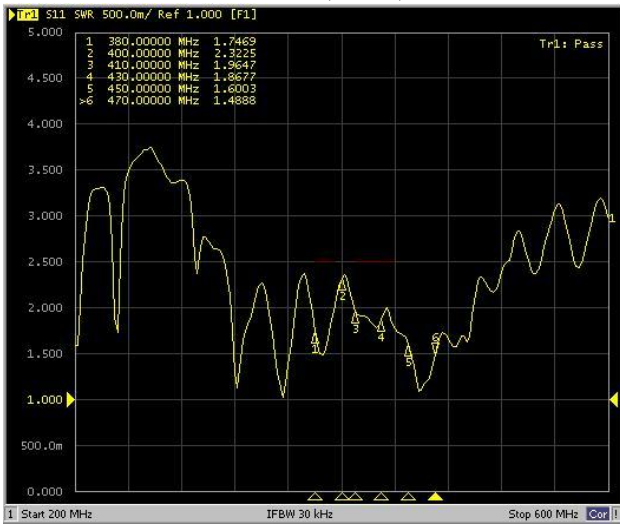
Tested with 5m cable length

Log Mag (Quad Band)

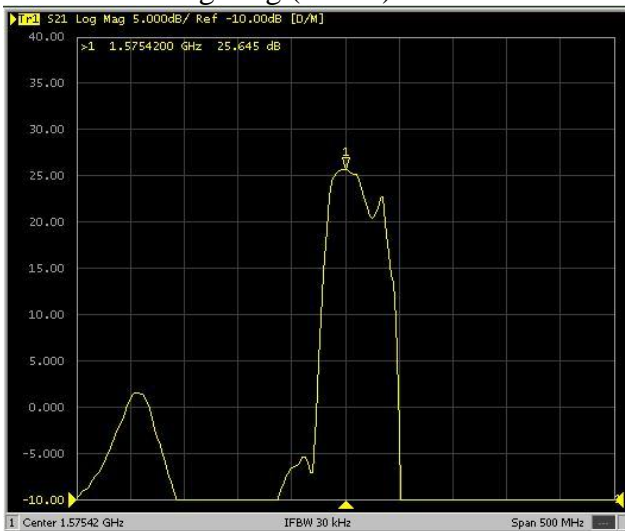


Tested with 5m cable length

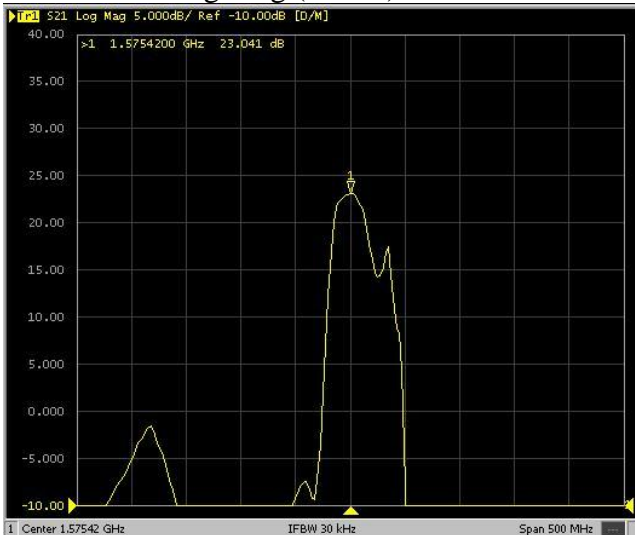
VSWS (Tetra)



Tested with 3m cable length
Log Mag (GNSS) at 3V

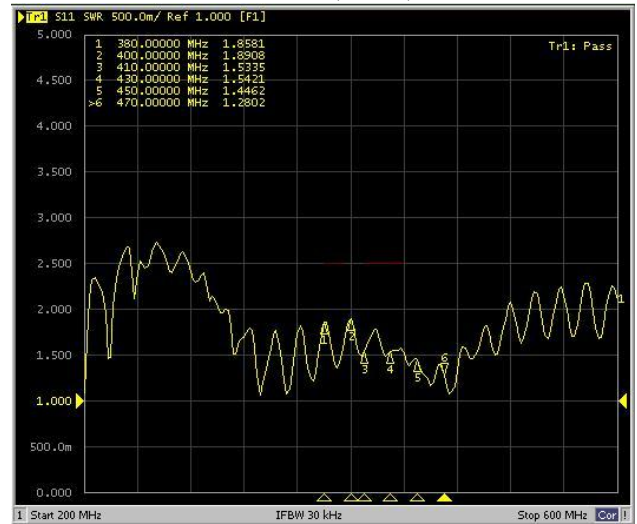


Tested with 3m cable length
Log Mag (GNSS) at 3V

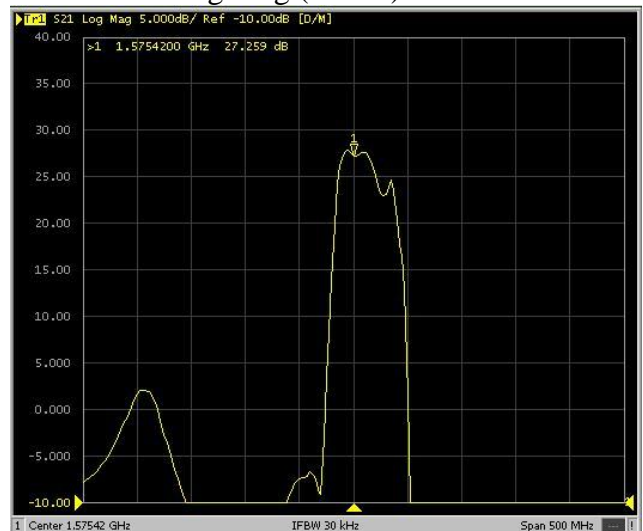


Tested with 5m cable length

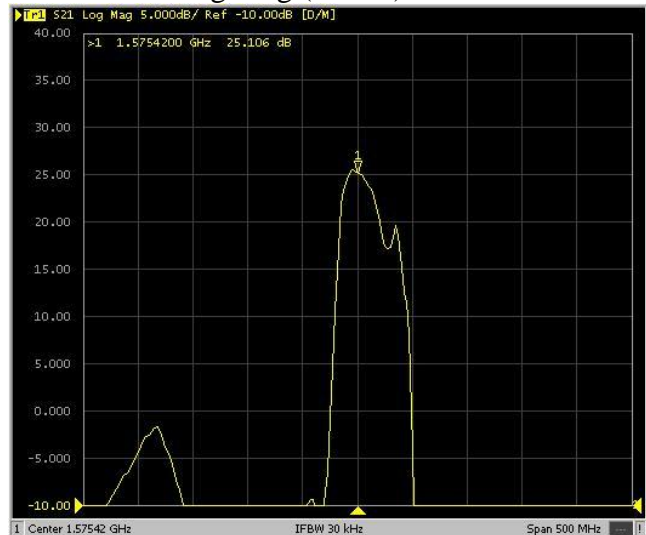
VSWS (Tetra)



Tested with 5m cable length
Log Mag (GNSS) at 5V



Tested with 3m cable length
Log Mag (GNSS) at 5V



Tested with 5m cable length

4. IMAGES

