

DATASHEET

Type	Combined Antenna
Frequencies	TETRA (380 - 500 MHz) GPS (1575.42 MHz) GLONASS (1592 - 1610 MHz)
Mounting	Body Mount
Part No.	2J857B 2J857BG
Revision	00



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1. PRODUCT SELECTOR

2J857B	GPS L1 version
2J857BG	GPS/GLONASS version

2. SPECIFICATION

2.1. Electrical Specifications

Tetra (Cable 1)

Frequencies	TETRA (380 - 500 MHz) 
Impedance	50 Ohms
Polarization	Vertical
Gain	2dBi
VSWR	<2:1
Power handling	30W
Operating temperature	-40°C to +85°C 

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz) GLONASS (1592 - 1610 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 

2.2. Connection Specifications

2.2.1. Default (recommended)

Cable 1 (Tetra):
 Connector type: FME female
 Cable: RG174U
 Cable length: 250 cm

Cable 2 (Navigation):
 Connector type: SMA male
 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

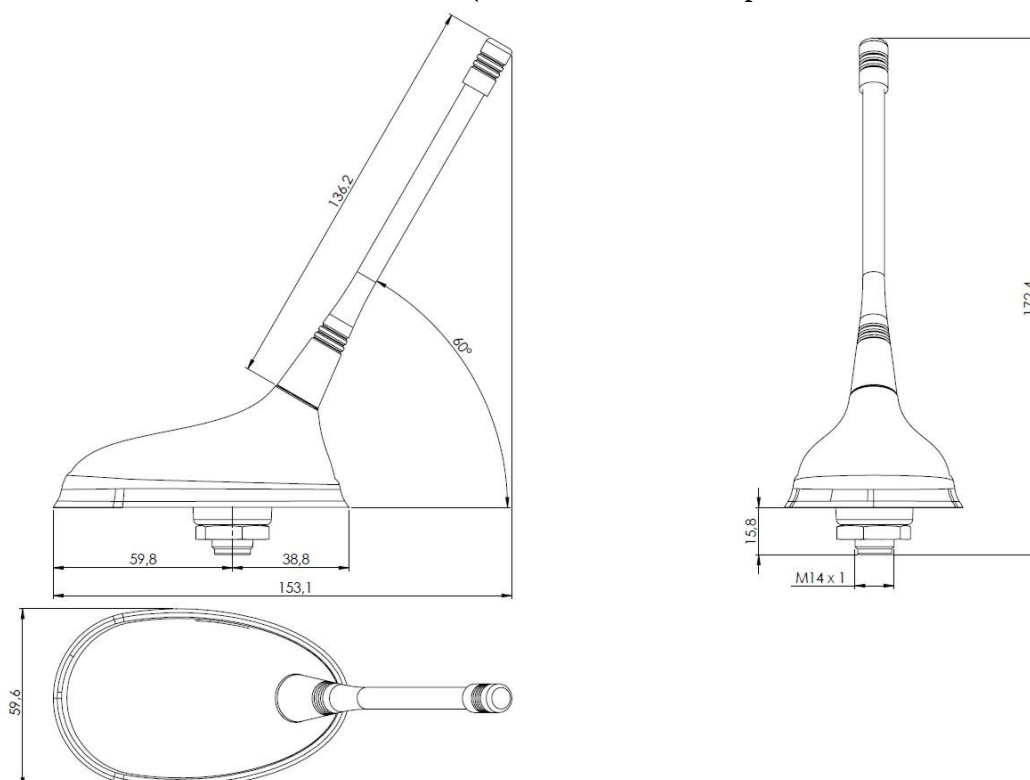
2.3. Mechanical Specifications and Dimensions

2.3.1. Mounting Type

- Body Mount

2.3.2. Body mount

Material: ABS / Zamak / TPE
 Max. dimensions: 175mm x 153mm x 59.5mm
 Weight: 223 g 'counted with default connection'
 Colour: Black (for different colours please ask our sales team)



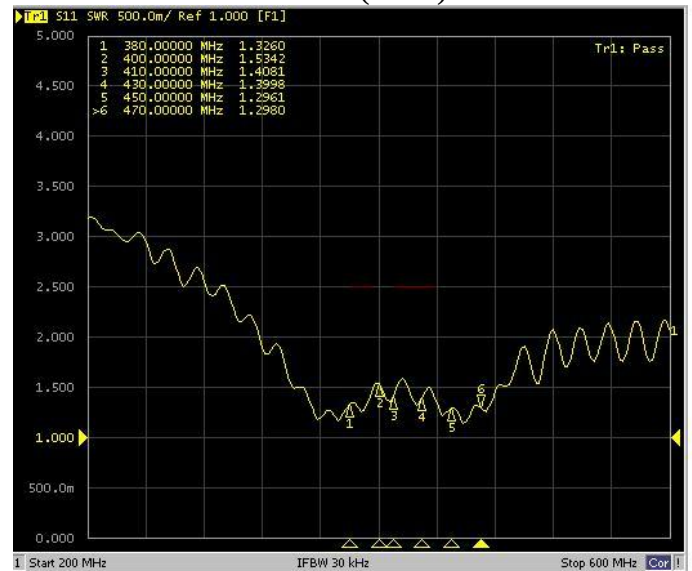
3. MEASUREMENT

VSWS (Tetra)



Tested with 3m cable length

VSWS (Tetra)



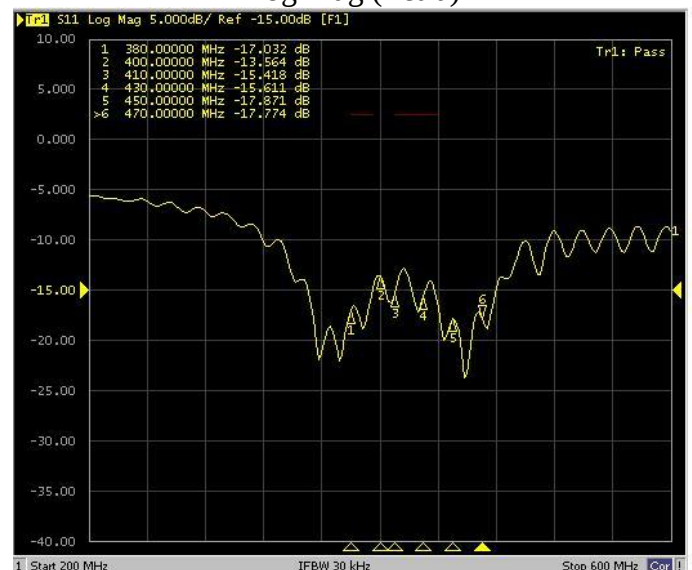
Tested with 5m cable length

Log Mag (Tetra)



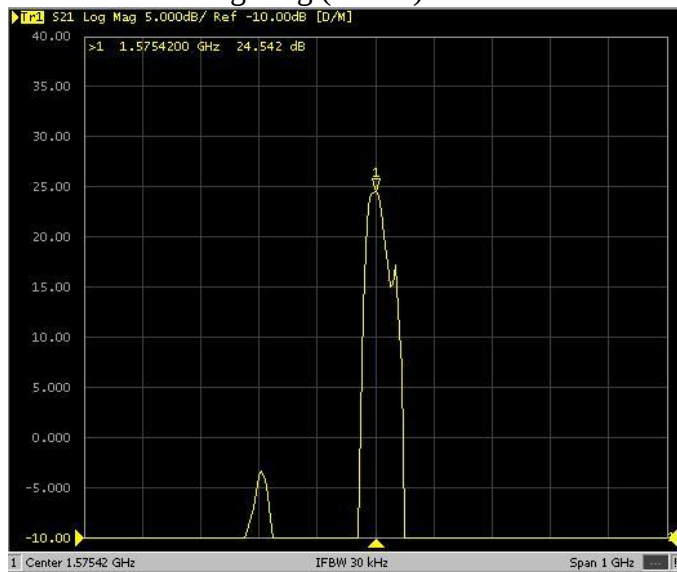
Tested with 3m cable length

Log Mag (Tetra)



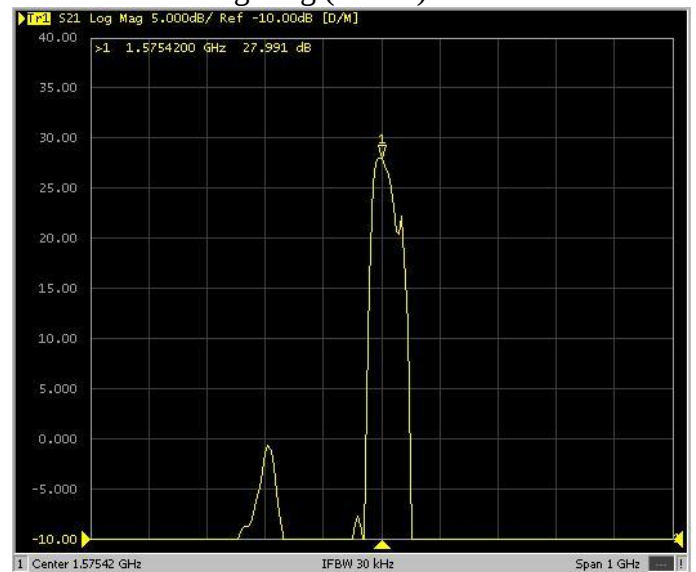
Tested with 5m cable length

Log Mag (GNSS) at 3V



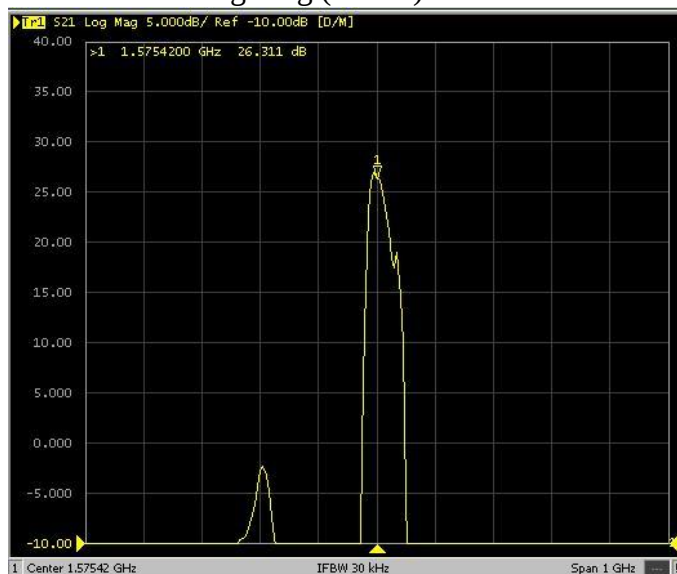
Tested with 5m cable length

Log Mag (GNSS) at 3V



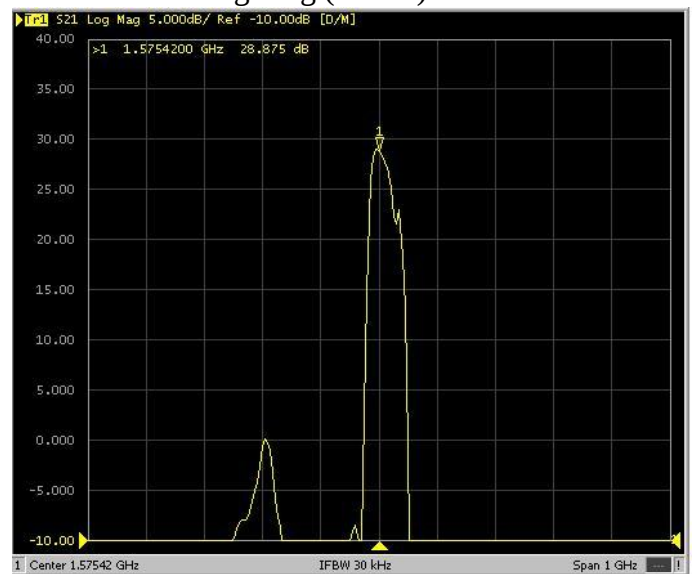
Tested with 3m cable length

Log Mag (GNSS) at 5V



Tested with 5m cable length

Log Mag (GNSS) at 5V



Tested with 3m cable length

4. IMAGES

