

2J8408BF

2J8408BGF

(DATASHEET)

Type
Frequencies

Combined antenna

Cable 1

TETRA (380 - 500 MHz)

Cable 2

AMPS (824-894 MHz)

GSM (900 MHz)

DCS (1800 MHz)

PCS (1900 MHz)

3G/UMTS (2100 MHz)

WIFI / BLUETOOTH (2.4 GHz)

Cable 3

GPS (1575.42 MHz)

GALILEO (1575.42 MHz)

GLONASS (1575.42 MHz)

Body Mount

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Mounting
Revision





1. PRODUCT SELECTOR

2J8408BF GPS L1 version
2J8408BGF GPS/GLONASS version

2. SPECIFICATION

2.1. *Electrical Specifications*

Tetra (Cable 3)

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

Mobile (Cable 2)

Frequencies	AMPS (850 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G/UMTS (2100 MHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	2.2dBi
VSWR	<2:1

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

GENERAL SPECIFICATION

Note	GNSS is filtered with filter before amplifier.
Operating temperature	-40°C to +85°C

2.2. Connection Specifications

Cable 1 (Navigation):

Connector type: SMA male
 Cable: RG174U
 Cable length: 30 cm

Cable 2 (Mobile):

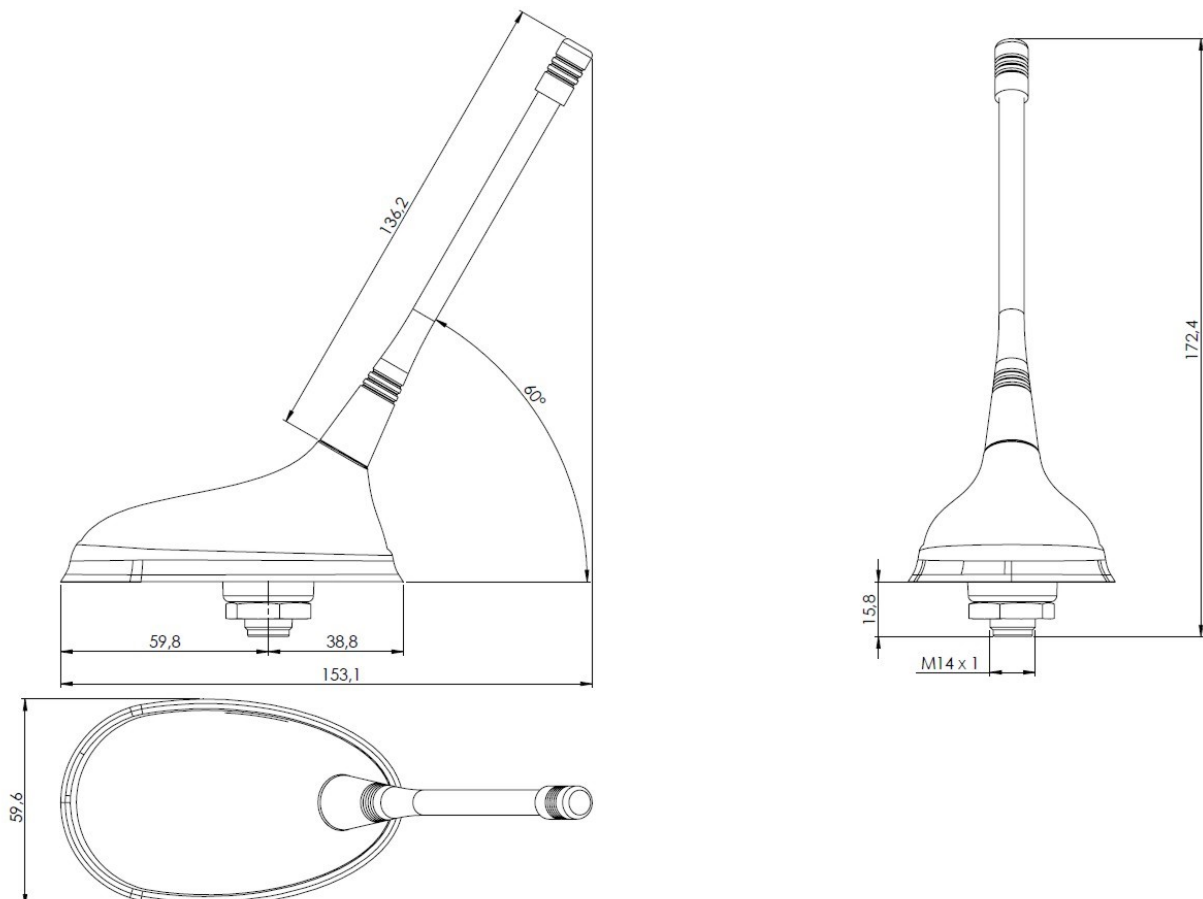
Connector type: FME female
 Cable: RG174U
 Cable length: 30 cm

Cable 3 (Tetra):

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

2.3. Mechanical Specifications and Dimensions

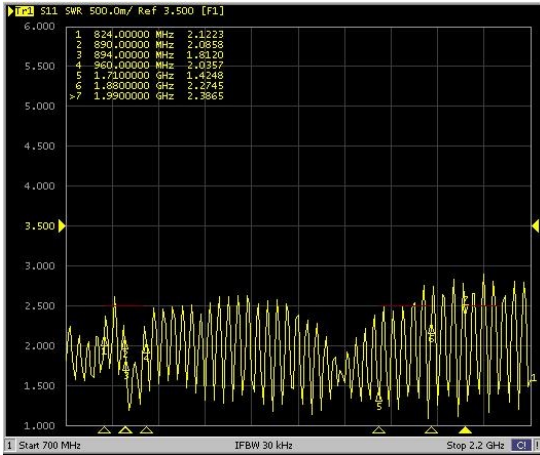
Material: Lid: ABS / Base: Zamak / Gasket: TPE
 Max. dimensions: 175mm x 98mm x 58mm
 Weight: 268 g ‘counted with default connection’
 Colour: Black (for different colours please ask our sales team)



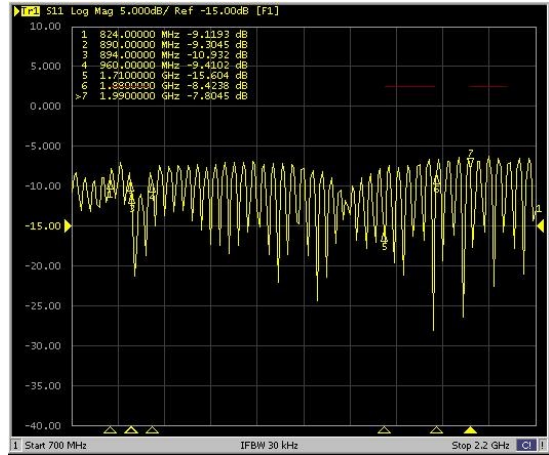
3. MEASUREMENT

- Tested on 30x30cm ground plane with 250cm RG174

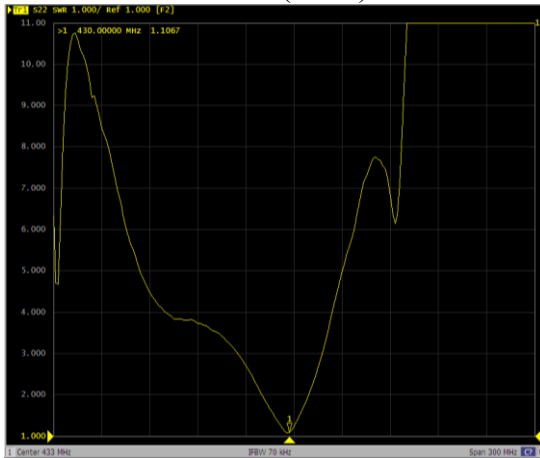
VSWR (Quad Band)



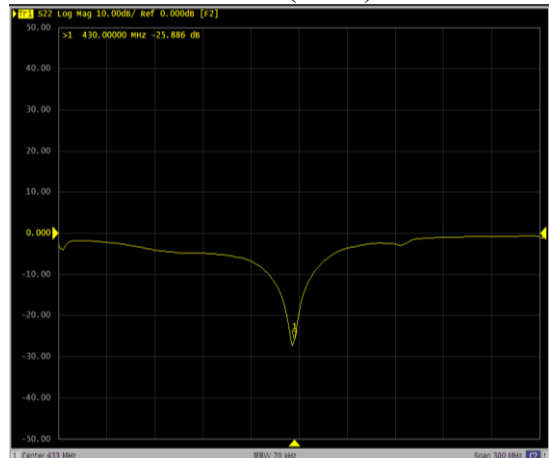
Log Mag (Quad Band)



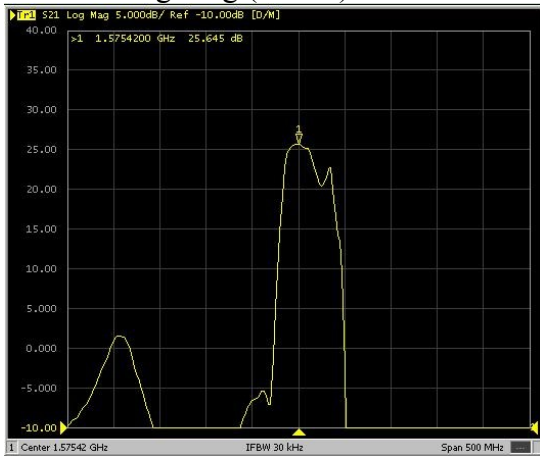
VSWR (Tetra)



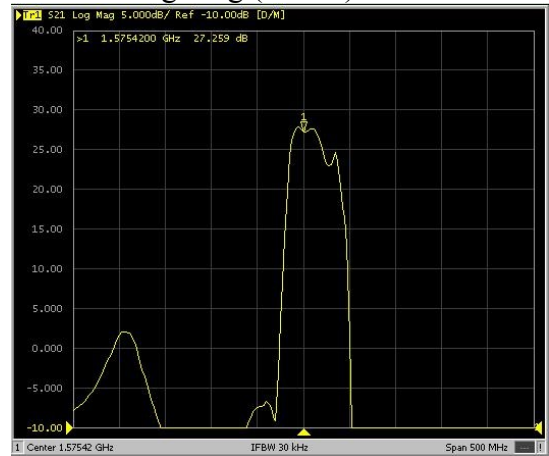
VSWR (Tetra)



Log Mag (GNSS) at 3V



Log Mag (GNSS) at 5V



4. IMAGES

