

2J860B 2J860BG (DATASHEET)

Type
Frequencies

Combined Antenna
AMPS (824 - 894 MHz)
GSM (900 MHz)
GPS (1575.42 MHz)
GLONASS (1592 - 1610 MHz)
DCS (1800 MHz)
PCS (1900 MHz)
3G (UMTS 2.1 GHz)
WIFI / BLUETOOTH (2.4 GHz)

Mounting
Revision

Body Mount
01



P. Tipul



D. Noble



1. PRODUCT SELECTOR

2J860B GPS L1 version
2J860BG GPS/GLONASS version

2. SPECIFICATION

2.1. *Electrical Specifications*

Mobile (Cable 1)

Frequencies	AMPS (824 - 894 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohm
Polarization	Vertical
Gain	2.2dBi
VSWR	<3:1
Operating temperature	-40°C to +85°C

Navigation (Cable 2)

Frequencies	GPS (1575.42 MHz) or GPS/GLONASS (1572 - 1610 MHz)
Impedance	50 Ohm
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

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

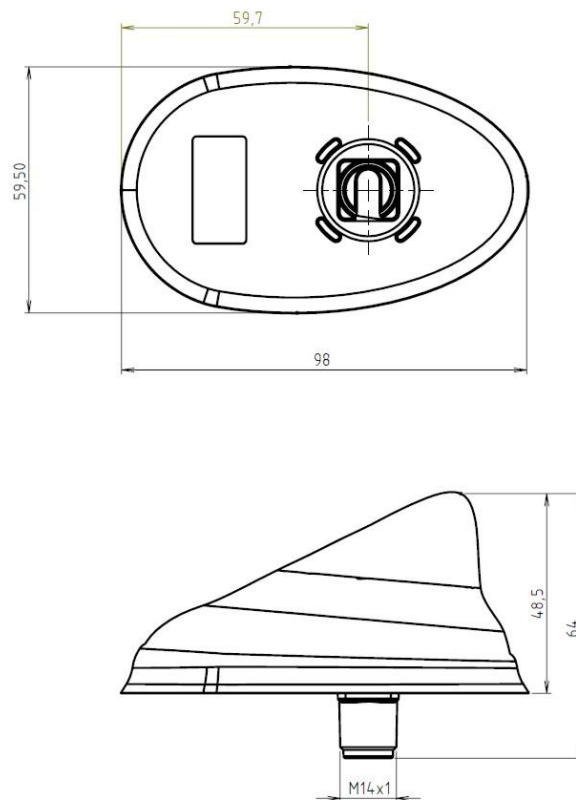
Cable 2 (Navigation):
Connector type: SMA male
Cable: RG174U
Cable length: 250 cm

For different cable or connector type please ask our sales team

2.3. Mechanical Specifications and Dimensions

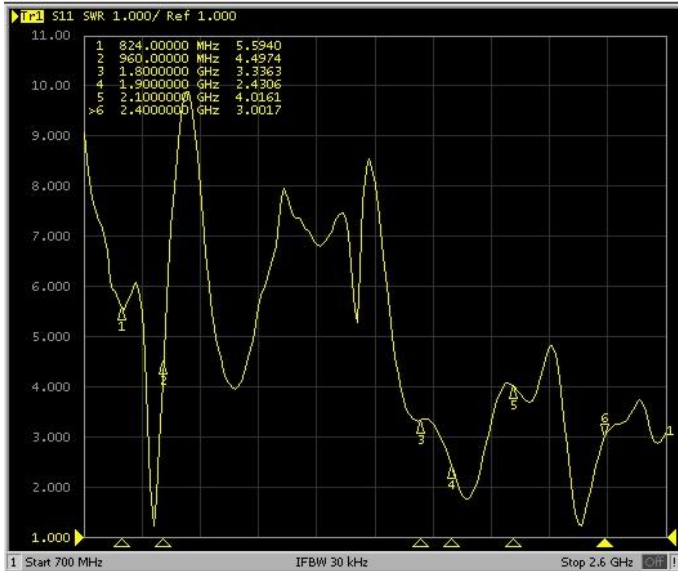
2.3.1. Body mount

Material: Base: Zamak / Lid: ABS / Gasket: TPE
Max. dimensions: 64mm x 98mm x 59.5mm
Weight: 200 g 'weight with connection above'
Colour: Black (for different colours please ask our sales team)
Mounting hole: Square (15 x 15 mm)



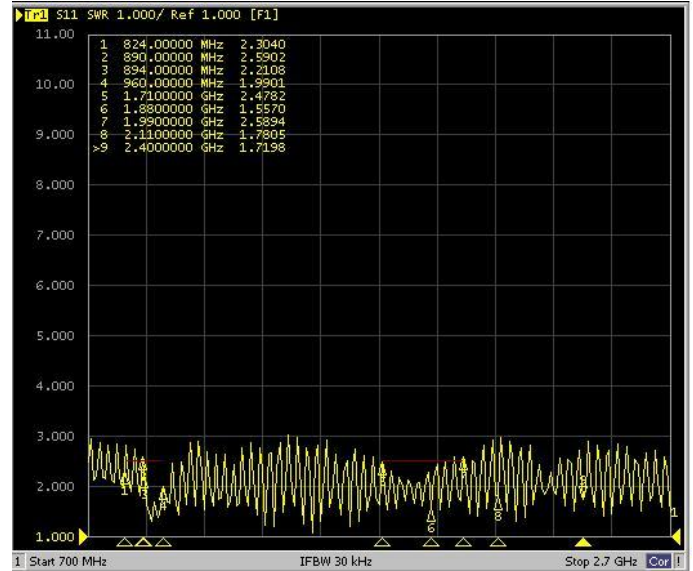
3. MEASUREMENT

VSWR (Quad Band)



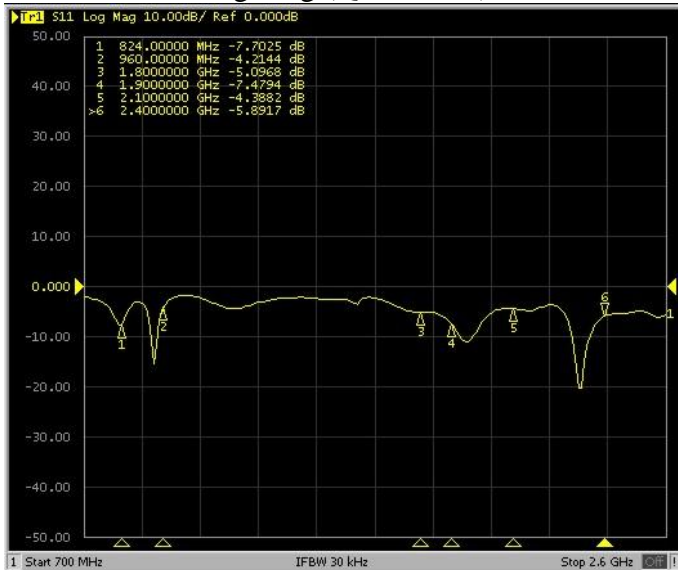
Tested with 30cm cable length

VSWR (Quad Band)



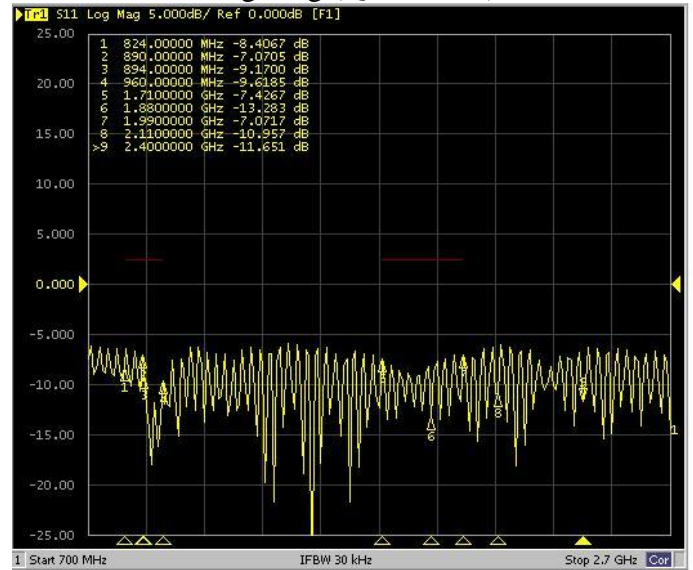
Tested with 3m cable length

Log Mag (Quad Band)



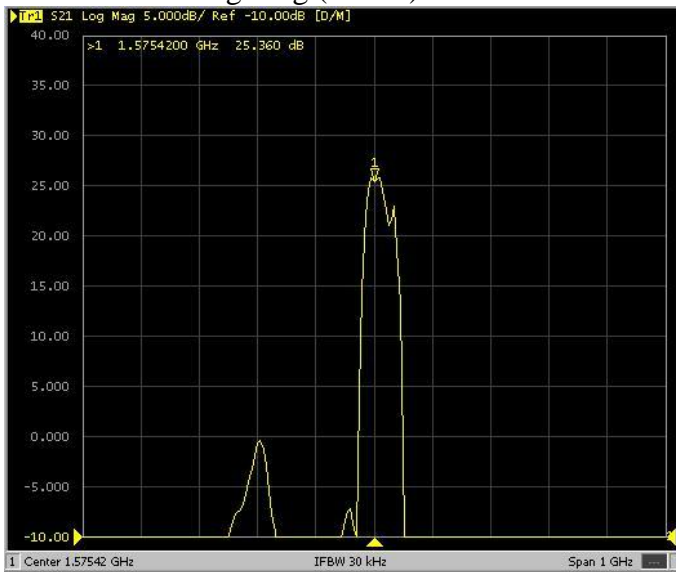
Tested with 30cm cable length

Log Mag (Quad Band)



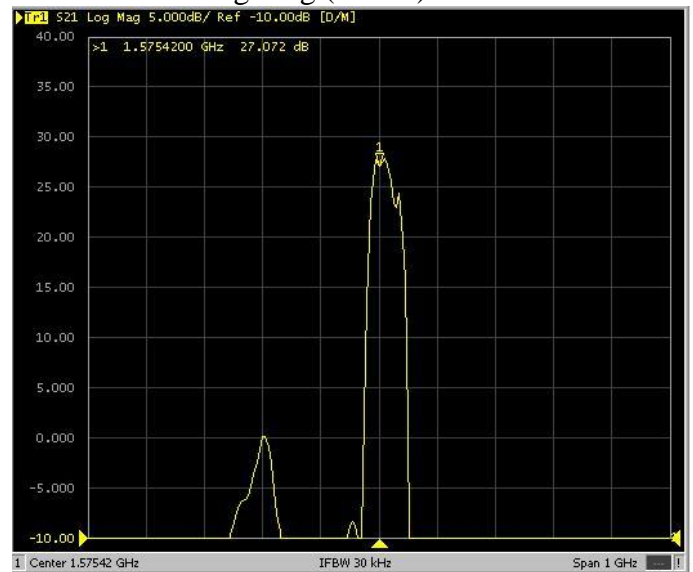
Tested with 3m cable length

Log Mag (GNSS) at 3V



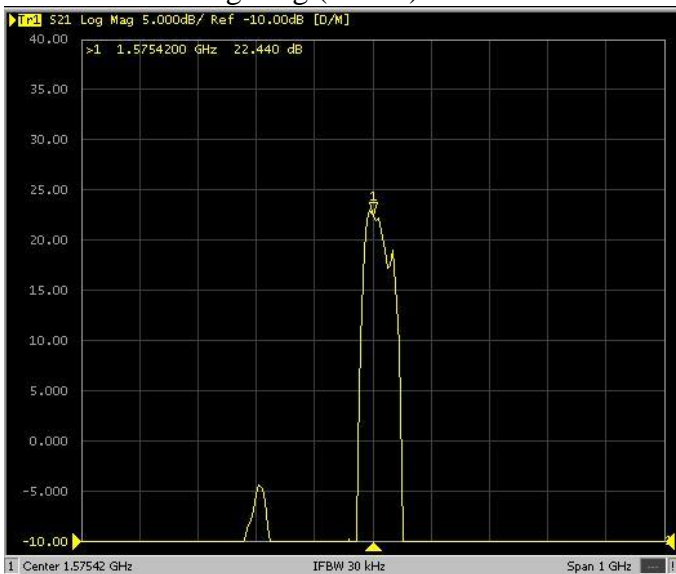
Tested with 3m cable length

Log Mag (GNSS) at 5V



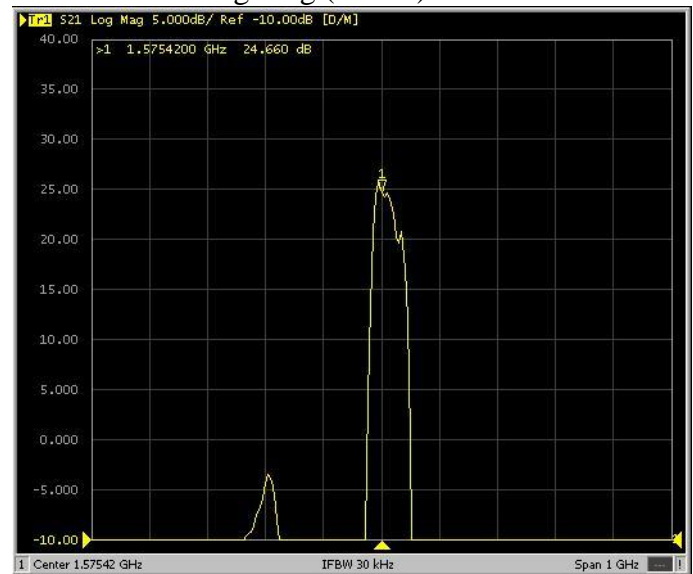
Tested with 3m cable length

Log Mag (GNSS) at 3V



Tested with 5m cable length

Log Mag (GNSS) at 5V



Tested with 5m cable length

4. REVISION LEGEND

Revision	Description	Approved By
00	Initial version	
01	Added 3G(UMTS 2.1GHz) frequency for GSM band	Tipul, Noble
02	Added AMPS (824 - 894 MHz) frequency for GSM band	Tipul, Noble

5. IMAGES

