

# 2J8600BF

# 2J8600BGF

## (DATASHEET)

<b>Type</b>	Combined Antenna
<b>Frequencies</b>	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)
<b>Mounting</b>	Body Mount
<b>Revision</b>	03





## 1. PRODUCT SELECTOR

**2J8600BF** GPS L1 version  
**2J8600BGF** 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

#### 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

#### General Specifications

Operating temperature	-40°C to +85°C
IP rating	IP67, IP69K

## 1.1. Connection Specifications

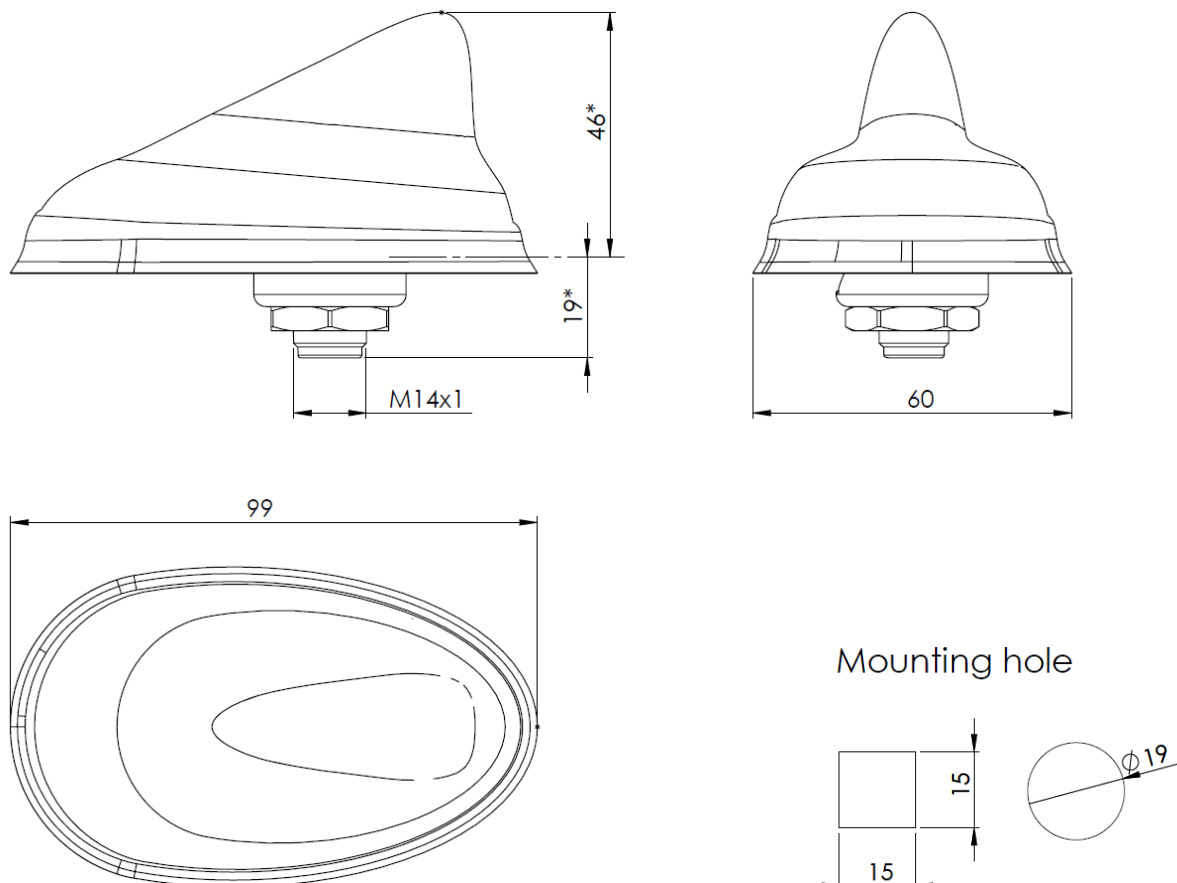
Cable 1 (Mobile):  
 Connector type: FME female  
 Cable: RG174U  
 Cable length: 250 cm

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

For different cable or connector type please ask our sales team

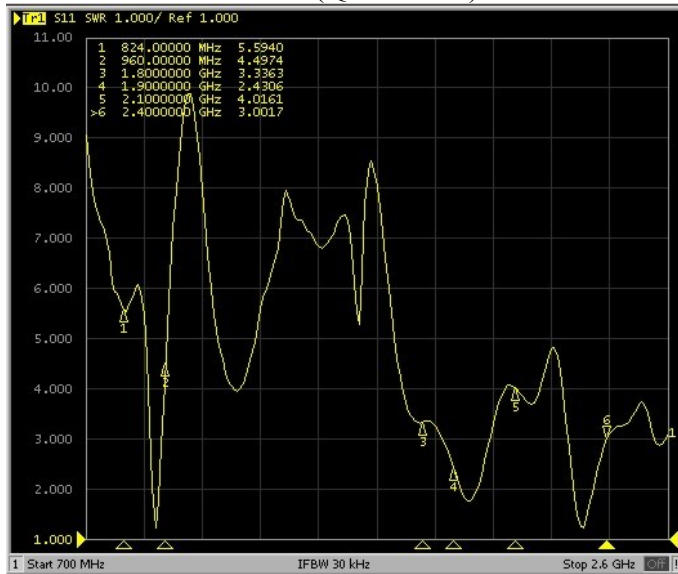
## 1.2. Mechanical Specifications and Dimensions

Material: Base: Zamak / Lid: ABS / Gasket: TPE  
 Max. dimensions: 60mm x 99mm x 46mm (WxLxH)  
 Weight: 200 g 'weight with connection above'  
 Colour: Black (for different colours please ask our sales team)  
 Mounting hole: Square 15 x 15 mm  
 Round D=19 mm



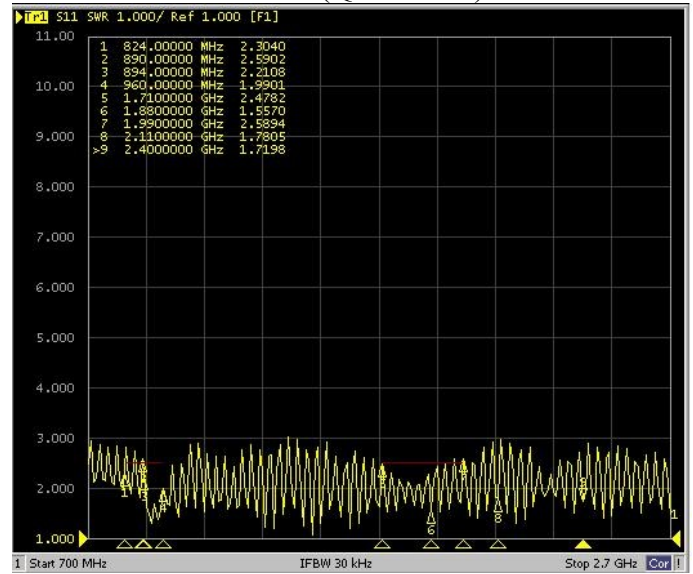
### 3. MEASUREMENT

VSWR (Quad Band)



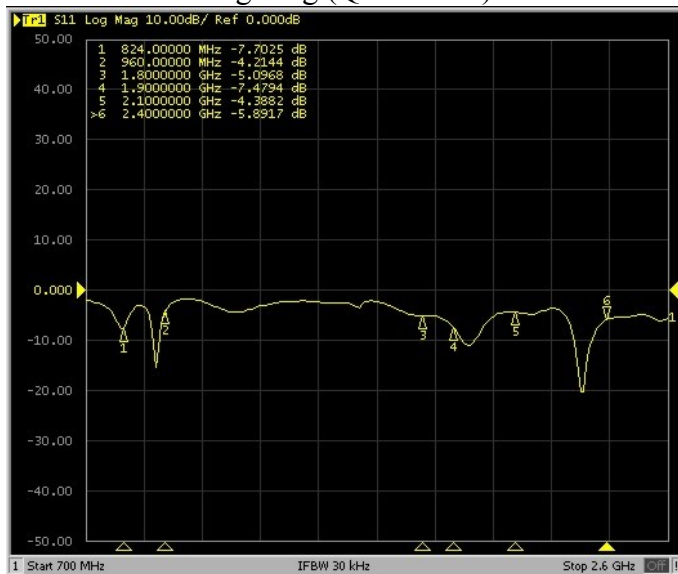
Tested with 30cm cable length

VSWSR (Quad Band)



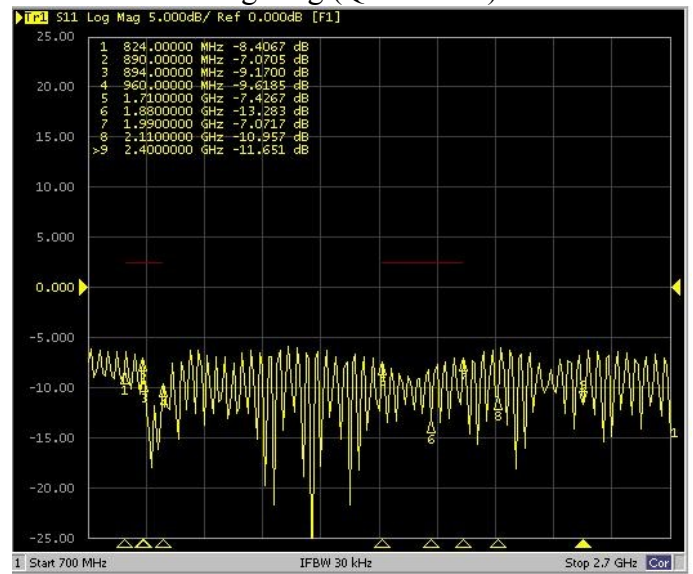
Tested with 3m cable length

Log Mag (Quad Band)



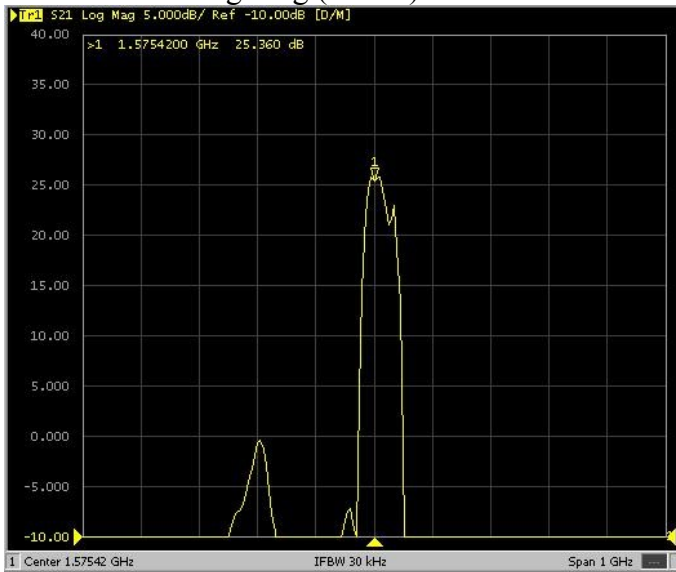
Tested with 30cm cable length

Log Mag (Quad Band)



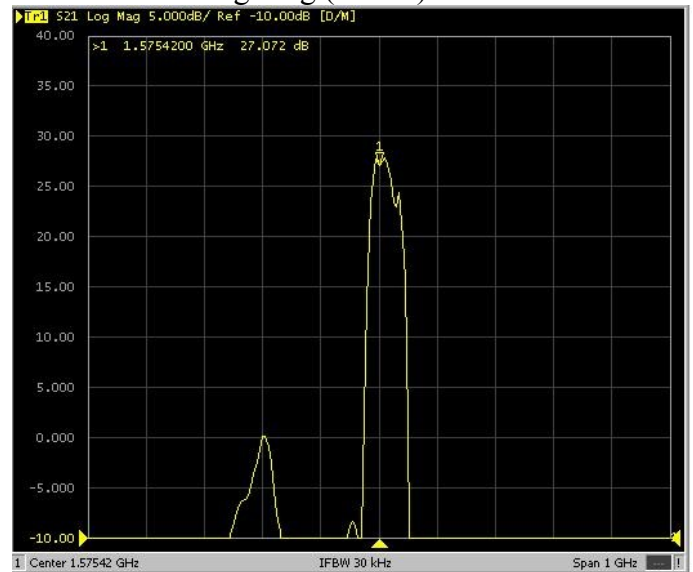
Tested with 3m cable length

Log Mag (GNSS) at 3V



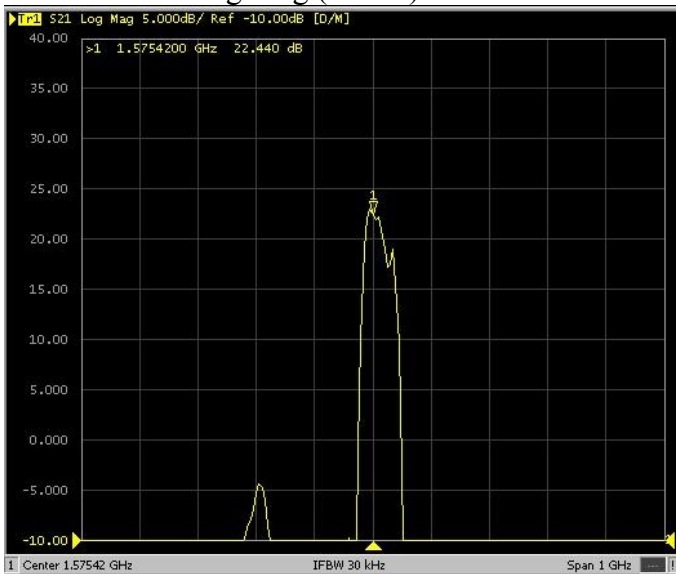
Tested with 3m cable length

Log Mag (GNSS) at 5V



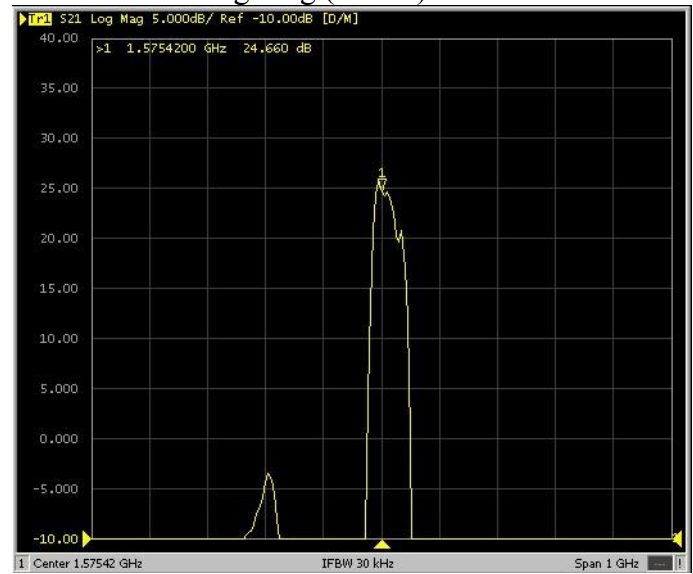
Tested with 3m cable length

Log Mag (GNSS) at 3V



Tested with 5m cable length

Log Mag (GNSS) at 5V



Tested with 5m cable length

## 4. IMAGES

