

2J8117BF 2J8117BGF

(Datasheet)

Type
Frequencies

Combined antenna
AM (530 KHz - 40 MHz)
FM (87,5 - 108 MHz)

GPS/GLONASS (1572-1610 MHz)

AMPS (850 MHz)
GSM (900 MHz)
DCS (1800 MHz)
PCS (1900 MHz)
3G (UMTS 2.1 GHz)

Mounting
Revision

WIFI / BLUETOOTH (2.4 GHz)
Body Mount
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Tipul
P. Tipul



1. PRODUCT SELECTOR

2J8117BF GPS L1 version
2J8117BGF GPS L1+GLONASS version

2. SPECIFICATION

2.1. Electrical Specifications

Navigation (Cable 1)

Frequencies	GPS/GLONASS (1572-1610 MHz)
Impedance	50 Ohms
Polarization	RHCP
LNA Gain	23 dB at 3V; 24 dB at 5V
VSWR	<1.2:1
Patch size	25 x 25 x 4 mm
Patch gain	2 – 3 dBiC
Voltage supply	2,7 V - 5,5 V
Current	15 mA to 25 mA
Power (max.)	138 mW

Radio (Cable 2)

Frequencies	AM (530 KHz - 40 MHz) FM (87,5 - 108 MHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	0 dBi
Power handling	50 W

GSM (Cable 3)

Frequencies	AMPS (850 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	2.2 dBi
VSWR	<3:1

WiFi (Cable 4)

Frequencies	WIFI / BLUETOOTH (2.4 GHz)
Impedance	50 Ohms
Polarization	VERTICAL
Gain	3 dBi max
VSWR	<1.2:1

General Specification

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

2.2. Connection Specifications

Cable 1 (Navigation):

Connector type: SMA male
 Cable: RG174
 Cable length: 250 cm

Cable 2 (Radio):

Connector type: ISO
 Cable: RG174
 Cable length: 250 cm

Cable 3 (GSM):

Connector type: SMA male
 Cable: RG174
 Cable length: 250 cm

Cable 4 (WiFi):

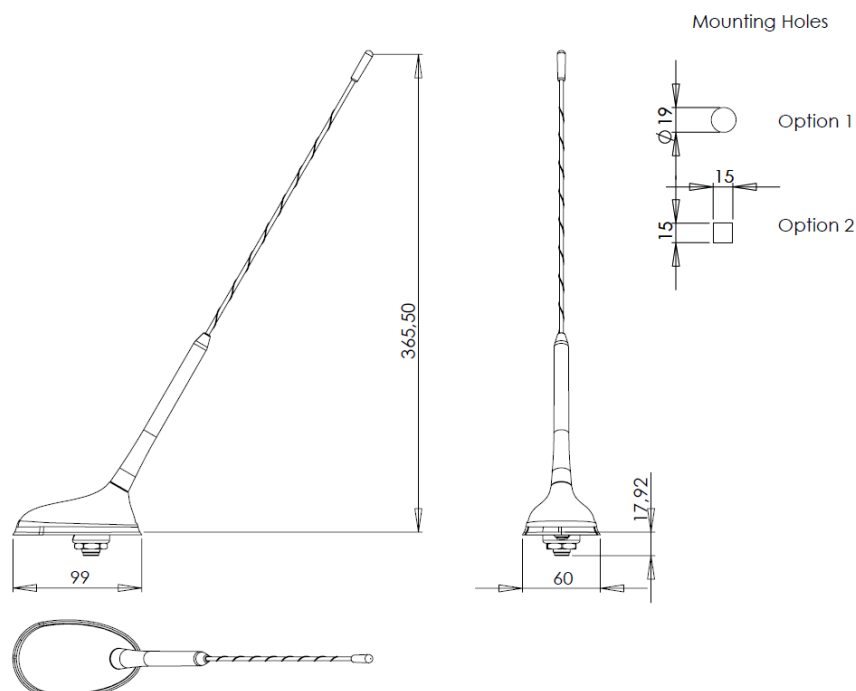
Connector type: SMA male
 Cable: RG174
 Cable length: 250 cm

For different cable length and connector type ask our sales team.

2.3. Mechanical Specifications and Dimensions

2.3.1. Body mount

Material: Lid: ABS / Base: Zamak
 Max. dimensions: 365.5mm x 60mm x 99mm (H x W x L)
 Weight: 238 g 'weight counted with cable above'
 Colour: Black (for different colours please ask our sales team)

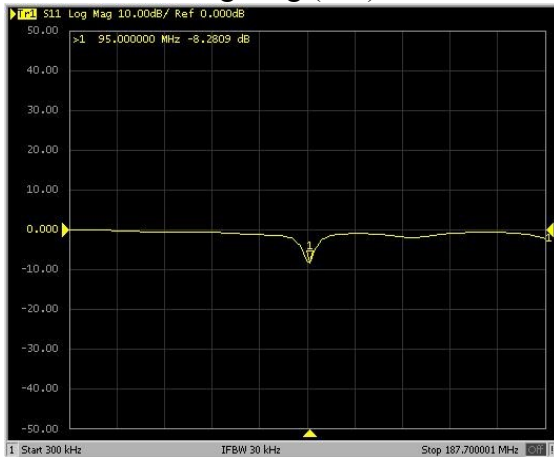


3. MEASUREMENT

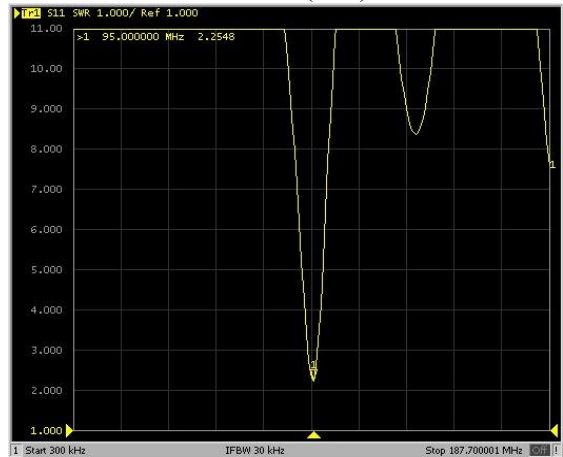
3.1. Electrical Characteristics

- Tested on 50 cm x 50 cm ground plane with 198 cm cable length

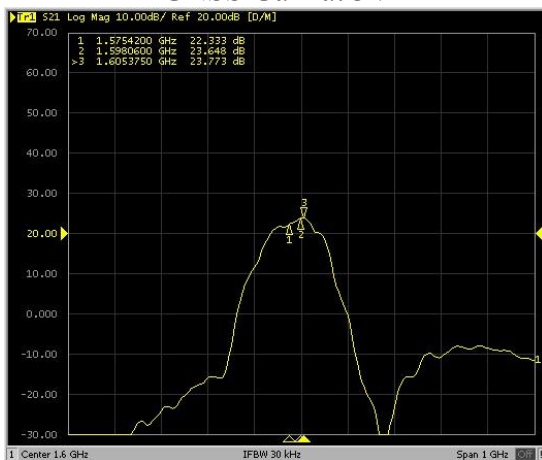
Log Mag (FM)



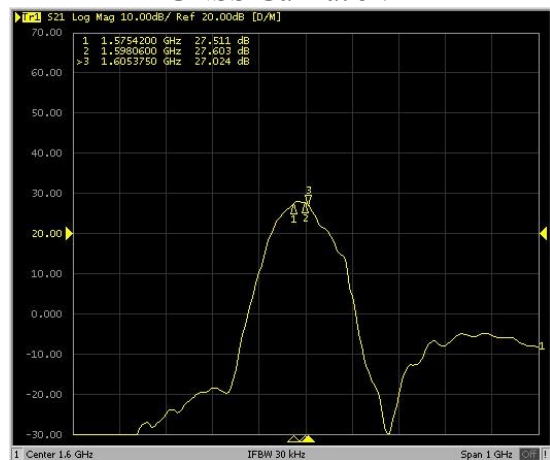
VSWR (FM)



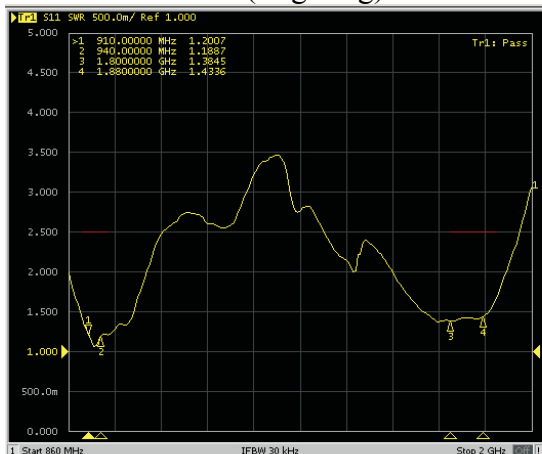
GNSS Gain at 3V



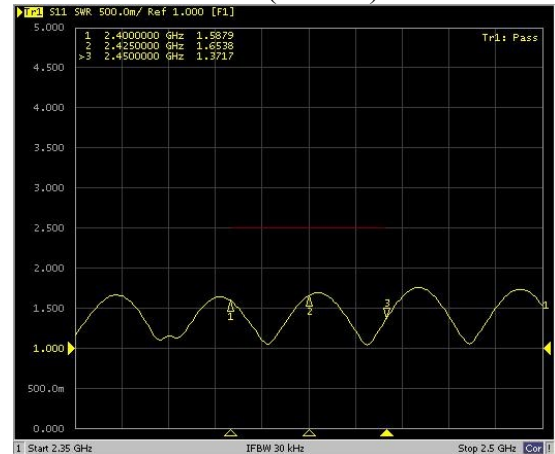
GNSS Gain at 5V



GSM (Log Mag)



WiFi (VSWR)



4. IMAGES

