



2J4441P 2J4441GP 2J4441RP 2J4441RGP

(DATASHEET)

Type LTE/GNSS Combined antenna

Frequencies 4G/LTE (699-960/1710-2690 MHz)

GPS (1575.42 MHz)

GALILEO E1 (1575.42 MHz) GLONASS (1592 - 1610 MHz)

Mounting Glass Mount

Revision 00



Tijul P. Tipul





1. PRODUCT SELECTOR

2J4441P LTE without diagnostic resistor and with GPS module

2J4441GP LTE without diagnostic resistor and with GPS+Glonass module

2J4441RP LTE with diagnostic resistor and with GPS module

2J4441RGP LTE with diagnostic resistor and with GPS+Glonass module

2. SPECIFICATION

2.1. Electrical Specifications

Mobile (Cable 1)

Frequencies	4G/LTE (699-960/1710-2690 MHz)
Impedance	50 Ohms
Polarization	Horizontal
Gain	2 dBi typ.
VSWR	<4:1
Power handling	35W
Note*	10k detection resistor

^{*}Antenna with diagnostic resistor

Navigation (Cable 2)

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Frequencies	GPS (1575.42 MHz)
	GALILEO E1 (1575.42 MHz)
	GLONASS (1592 - 1610 MHz)
Impedance	50 Ohms
Noise figure	1.2 dB typ.
Polarization	RHCP
LNA Gain	23dB at 3V; 24dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15mA - 25 mA
Power (max.)	138 mW max.

2.2. General Specifications

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

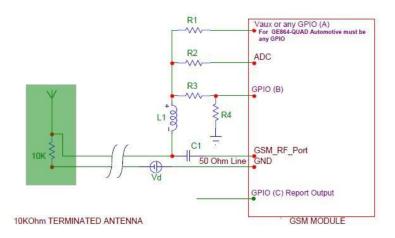




2.3. Connection Specifications

Cable 1 (Mobile):

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



LTE Antenna with diagnostic resistor is terminated with 10k Ohm resistor what can be used in application where you need check antenna presence. On the picture above you can see example of connecting antenna into that circuit. With this application you can check if antenna is connected or not or if on antenna is shorted.

Cable 2 (Navigation):

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

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



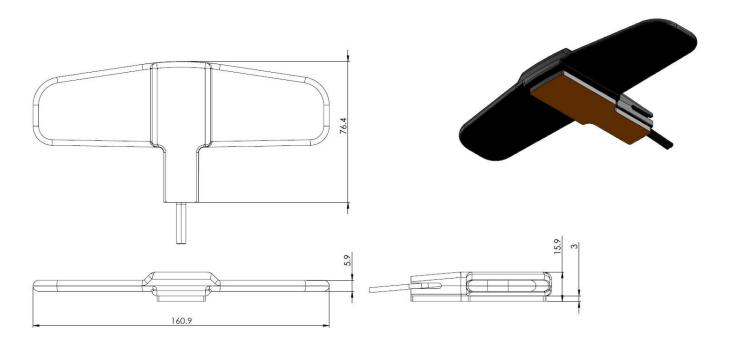


2.4. Mechanical Specifications and Dimensions

Material: ABS

Max. dimensions: 76.4mm x 15.9mm x 160.9mm (L x T x W)
Weight: 190 g 'weight counted with connection above'

Colour: Black (for different colours please ask our sales team)





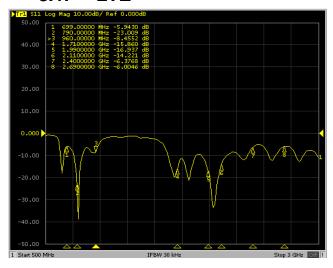


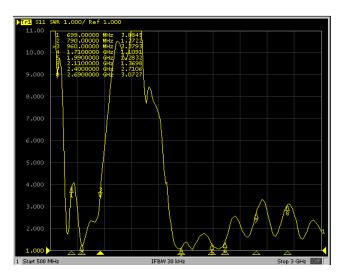


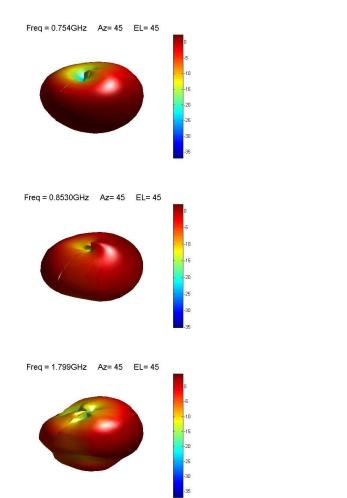
3. MEASUREMENT

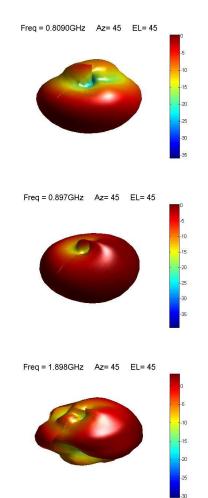
- 30cm RG174 Coaxial Cable
- mounted on car glass

3.1. LTE



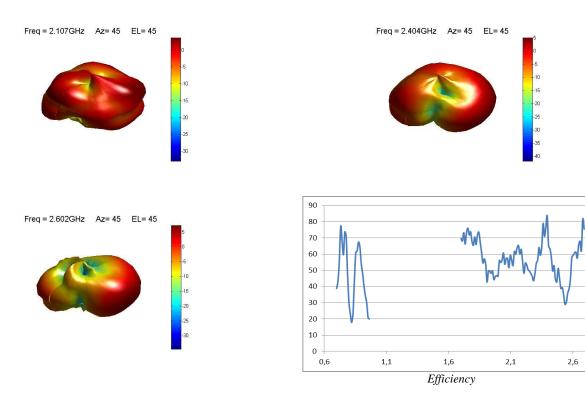






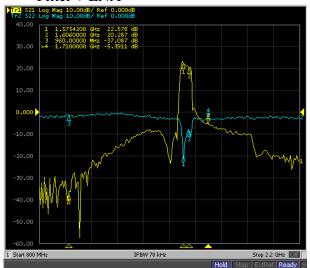




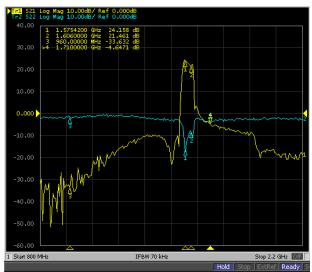


3.2. GNSS

• Filter + LNA



Yellow LNA+Filter S21; Blue LNA+Filter S22 (O/P) [3V]



Yellow LNA+Filter S21; Blue LNA+Filter S22 (O/P) [5V]