

# Antenna, Puck Dual

## ERF4038

### Description

The ERF4038 Antenna is a black, GPS/GLONASS and 4G antenna with 2 SMA (Male) connectors. 1 for GPS/GLONASS and 1 for 4G. the attached cable is a high quality coaxial cable (RG-174U). The antenna can be used for applications such as M2M , GPS/GLONASS, GSM and 4G.



### Technology

- LTE CAT-M
- NB-IoT
- ISM
- Zigbee
- GPS/GNSS
- 4G
- 5G
- WiFi
- GSM

### Features

Mechanical Properties	Description
Antenna	External Puck Antenna
Mounting	Screw Type
Connector	SMA (Male) (2x)
Cable Type	RG174
Cable Length	300 cm ± 1
Antenna Color	Black
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C

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Electrical Properties	Antenna 1 Cellular			Antenna 2 GNSS			
	Frequency marker	Frequency band MHz	Return loss dB	V.S.W.R.	Frequency band MHz	Return loss dB	V.S.W.R.
	1	700	-11.5	< 1.7	1.200	-11.3	< 1.7
	2	800	-13.3	< 1.6	1.575	-17.4	< 1.3
	3	868	-10.6	< 1.8	-	-	-
	4	900	-8.5	< 2.2	-	-	-
	5	915	-7.6	< 2.4	-	-	-
	6	1.800	-14.1	< 1.5	-	-	-
	7	1.900	-14.9	< 1.4	-	-	-
	8	2.100	-22.1	< 1.2	-	-	-
	9	2.400	-18.3	< 1.3	-	-	-
	10	2.600	-16.1	< 1.4	-	-	-
	11	3.500	-15.5	< 1.4	-	-	-
	12	5.000	-16.0	< 1.4	-	-	-
	13	5.800	-14.6	< 1.5	-	-	-
Nominal Impedance:	50 Ω						
Polarization:	Linear - cellular RHCP - GNSS						
Gain:	2 dBi						

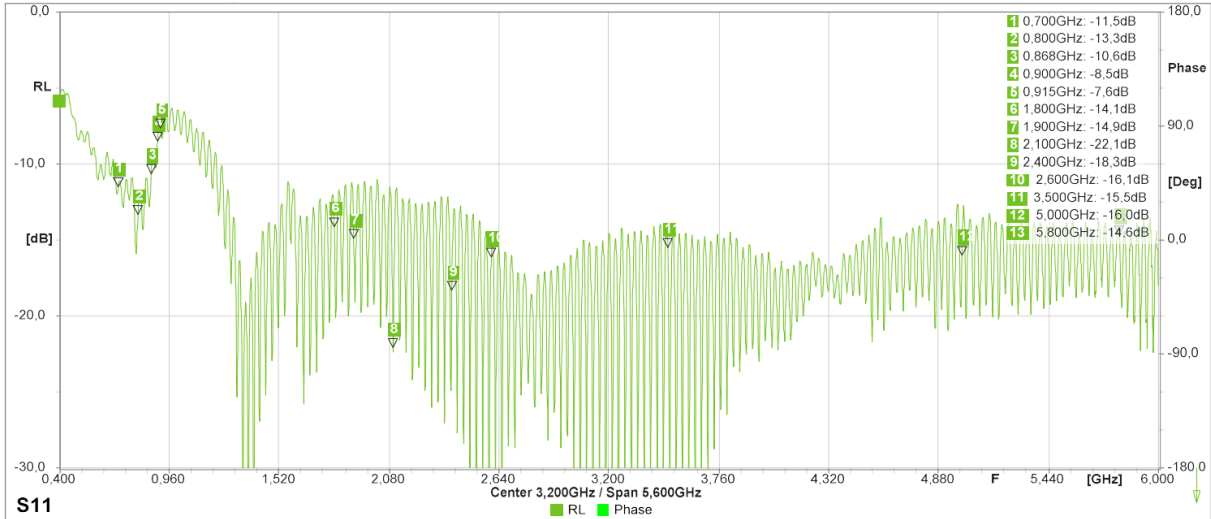
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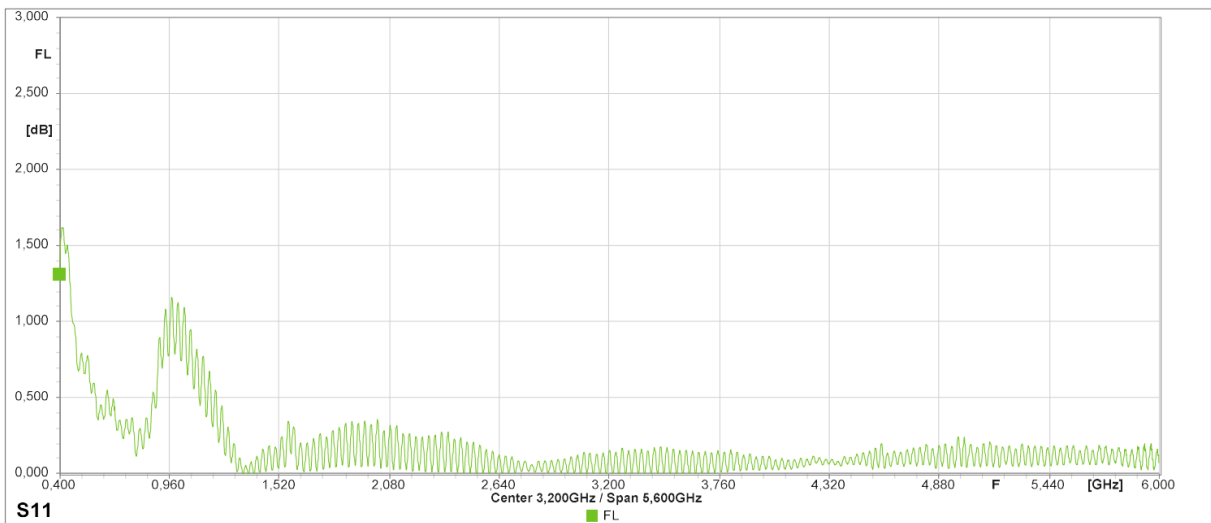
### Properties

### Antenna 1 Cellular

#### Return Loss



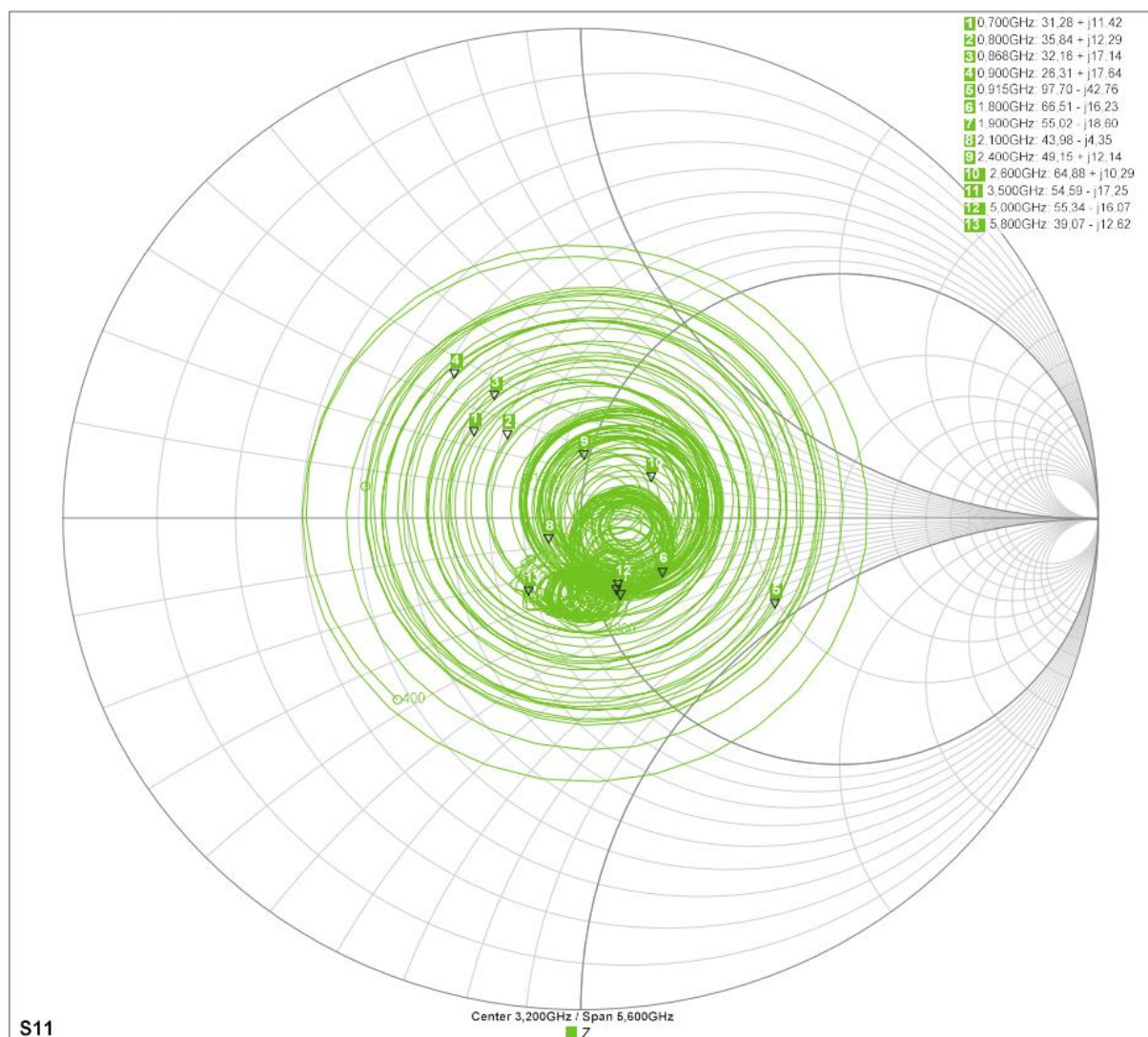
#### Forward Loss



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Impedance



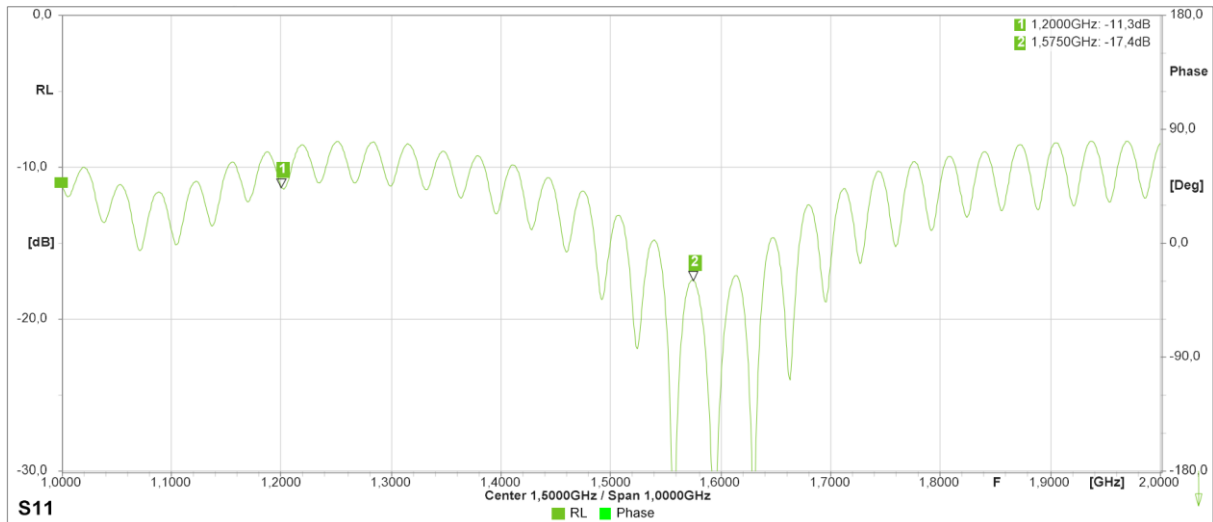
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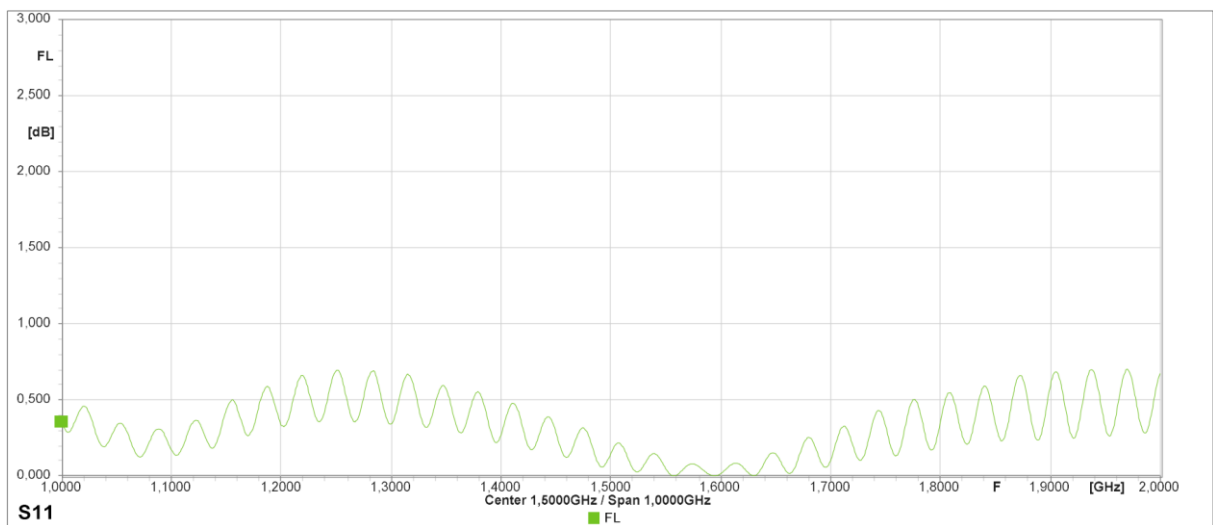
### Properties

### Antenna 2 GNSS

#### Return Loss



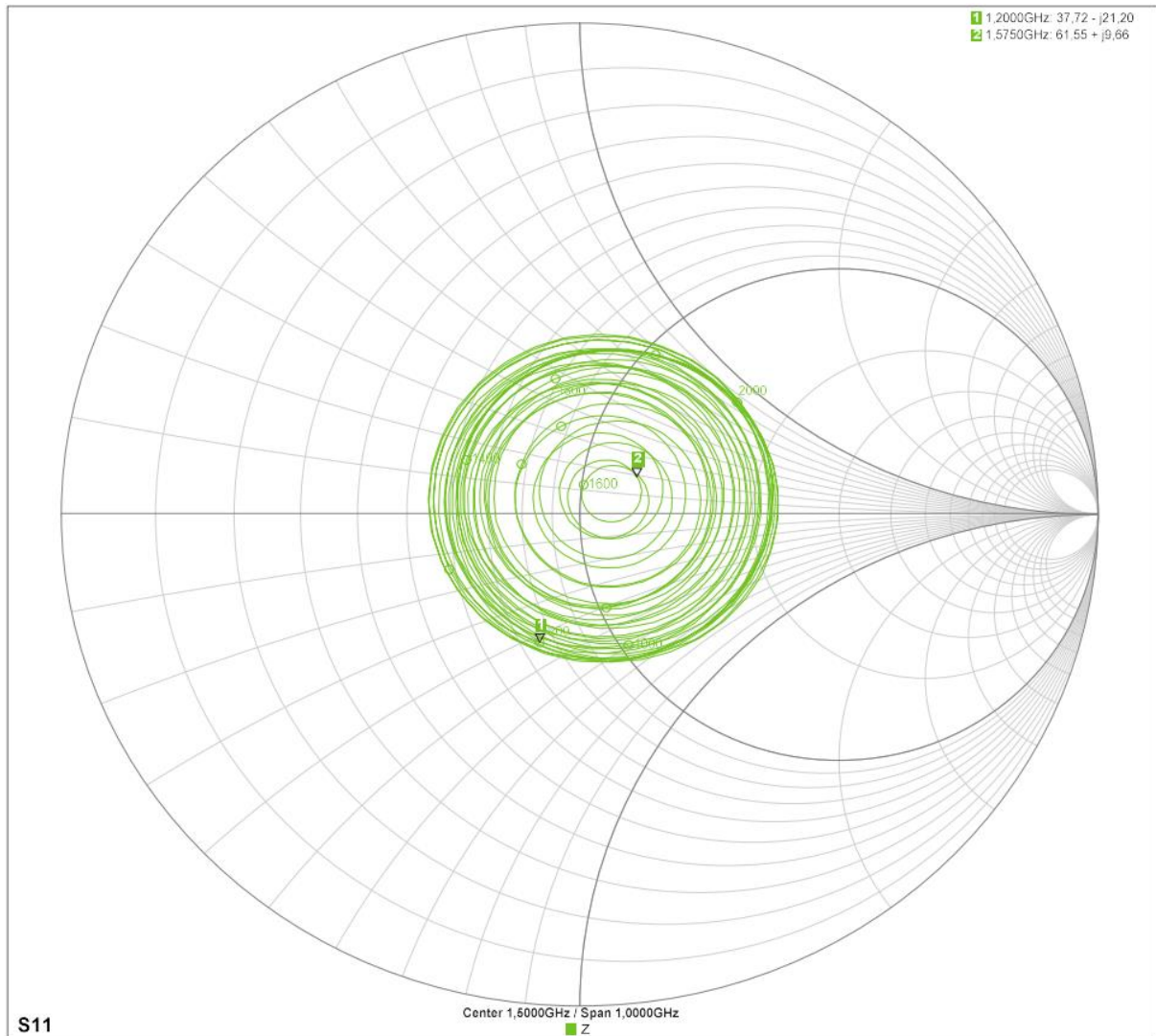
#### Forward Loss



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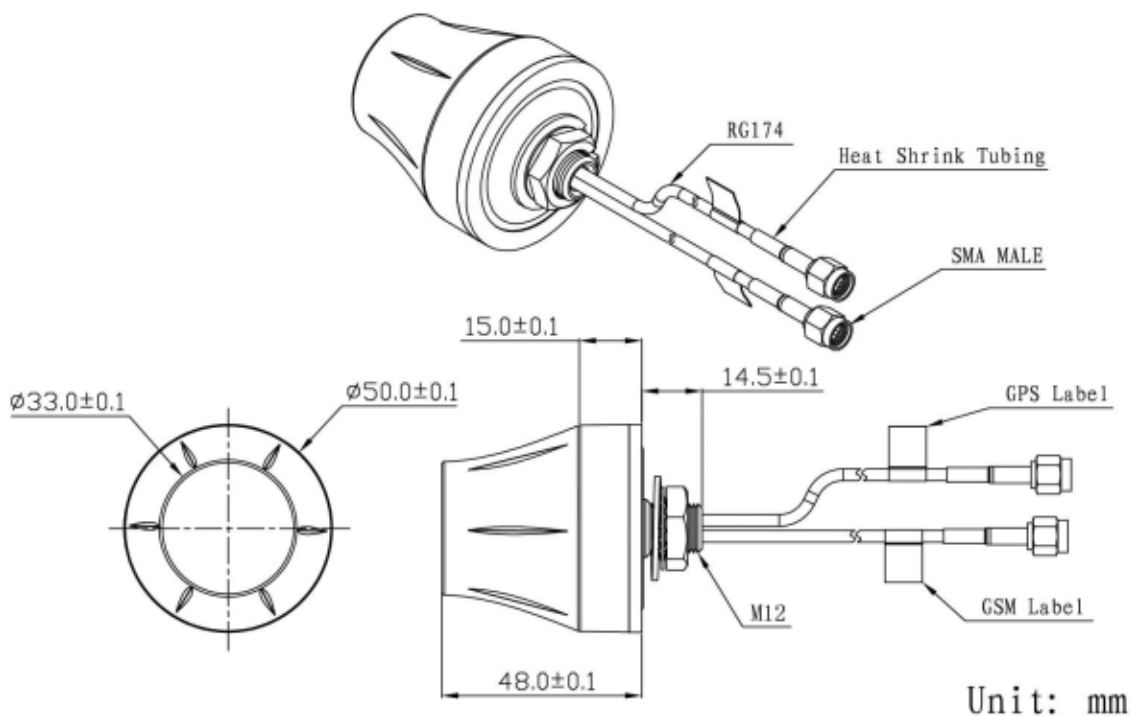
Impedance



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### Dimensions



### Connector



The ERF4038 antenna uses the SMA Male connector (2x). 1 connector for GPS/GLONASS and 1 for 4G.

### Ordering information

Ordering can be done via [www.summit-electronics.com](http://www.summit-electronics.com) or via [info@summit-electronics.com](mailto:info@summit-electronics.com). Please contact us for more information. Customisation of the product is available on request.

### Technical support

For all product questions please contact us via [info@summit-electronics.com](mailto:info@summit-electronics.com)

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## Document revision

Rev	Date	changes
V01.00	06-04-2023	First issue of document