

# Antenna, Puck Triple

ERF4106

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## Description

The ERF4106 antenna is Combi “Puck” antenna with a M12 mounting , 3m cable and 3 SMA Male connectors. Each SMA Male connector has a dedicated supported frequency, either being LTE, GPS or WiFi, so please take care when mounting. The antenna can be used for applications such as, M2M, cellular, Wi-Fi, Bluetooth, GNSS/GPS an many more



## Technology

- LoRa
- ISM
- 5G/4G/3G/2G
- NB-IoT
- LTE-M / CAT-M
- WiFi
- Bluetooth
- Zigbee
- GPS / GNSS



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## Features

Mechanical Properties	Description
Antenna	External Antenna
Mounting	Screw Type (M12 mounting) , and adhesive tape
Connectors	3x SMA (Male)
Dimensions	81.3 $\varnothing$ mm $\pm$ 1
Color	Black
Cable Length	300 cm $\pm$ 0.5
Cable Type	RG174
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
Ingress Protection	IP65 ~ IP66 (excluding cable outlet)

Electrical Properties	Description
Nominal Impedance	50 $\Omega$
Polarization	RHCP GNSS Linear Cellular Linear Wifi
Gain	3 dBi (Zenith) GPS 28 $\pm$ 2 dB LNA 2 dBi Cellular 2 dBi Wifi
Supply Voltage	2.2 ~ 5V DC
Current Consumption	< 15 mA

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## ERF4106



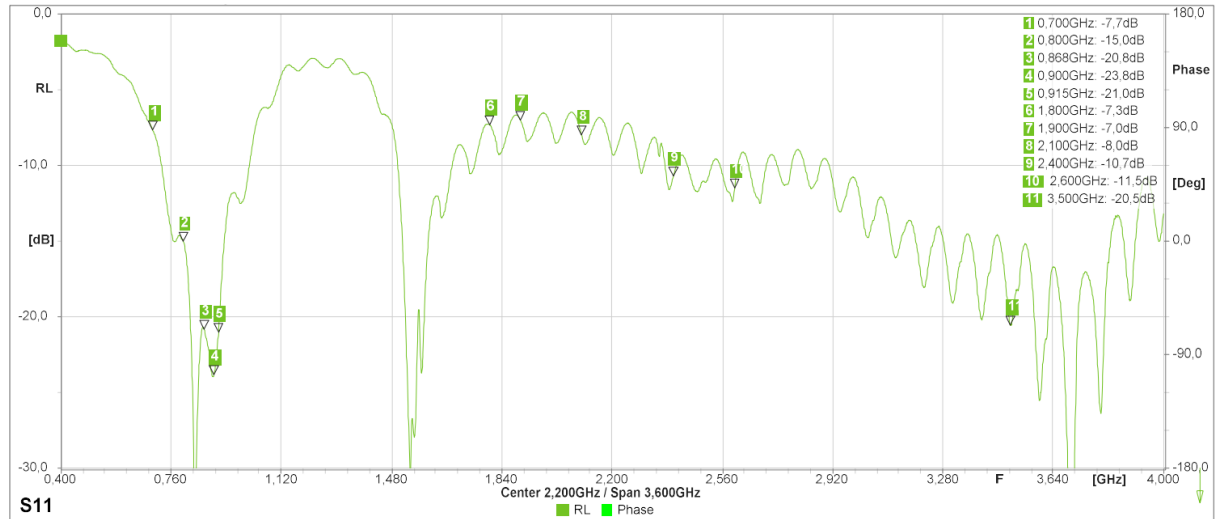
Antenna Properties	Cellular			GNSS			Wifi		
	Marker	Frequency band MHz	Return loss dB	V.S.W.R.	Frequency band MHz	Return loss dB	V.S.W.R.	Frequency band MHz	Return loss dB
1	700	-7.7	< 2.4	1.200	-15.2	< 1.4	2.400	-8.5	< 2.2
2	800	-15.0	< 1.4	1.575	-35.2	< 1.0	5.000	-22.0	< 1.2
3	868	-20.8	< 1.2	-	-	-	5.800	-28.4	< 1.1
4	900	-23.8	< 1.1	-	-	-	-	-	-
5	915	-21.0	< 1.2	-	-	-	-	-	-
6	1.800	-7.3	< 2.5	-	-	-	-	-	-
7	1.900	-7.0	< 2.6	-	-	-	-	-	-
8	2.100	-8.0	< 2.3	-	-	-	-	-	-
9	2.400	-10.7	< 1.8	-	-	-	-	-	-
10	2.600	-11.5	< 1.7	-	-	-	-	-	-
11	3.500	-20.5	< 1.2	-	-	-	-	-	-

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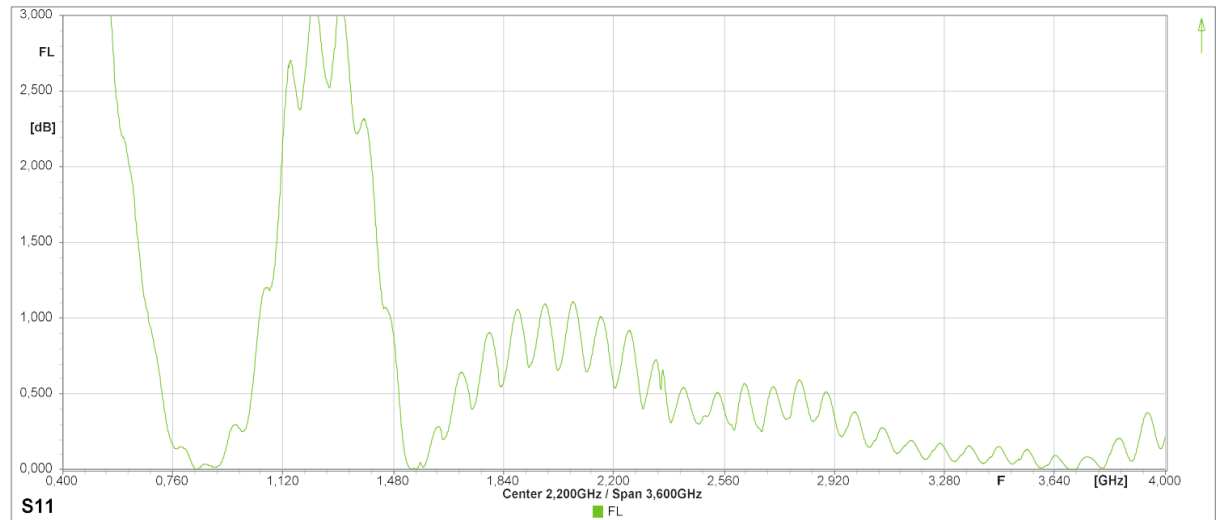
## ERF4106

### Properties Antenna 1 Cellular

#### Return Loss



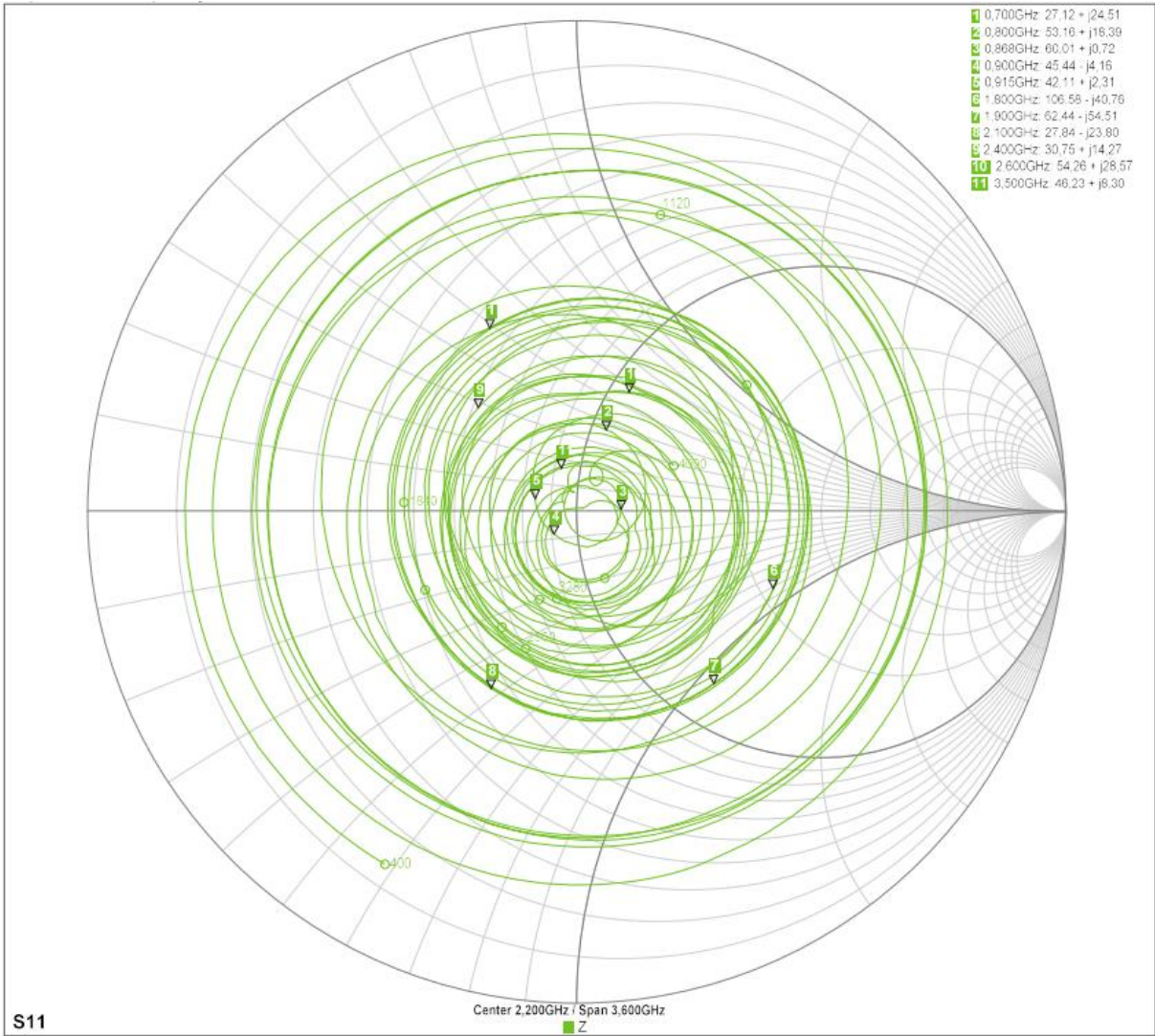
#### Forward Loss



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Impedance

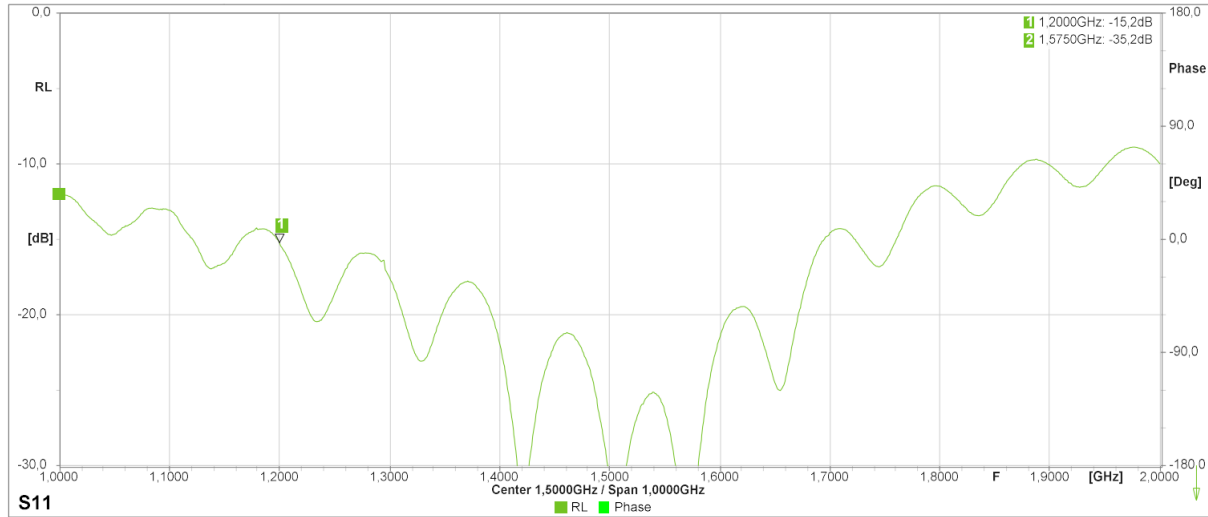


# Antenna, Puck Triple

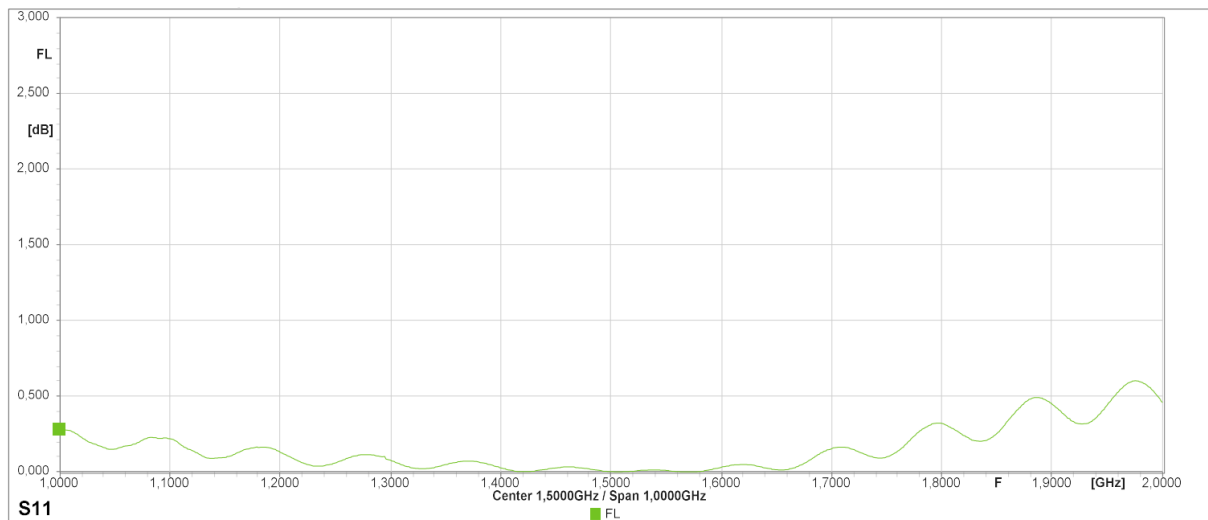
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### Properties Antenna 2 GPS

#### Return Loss



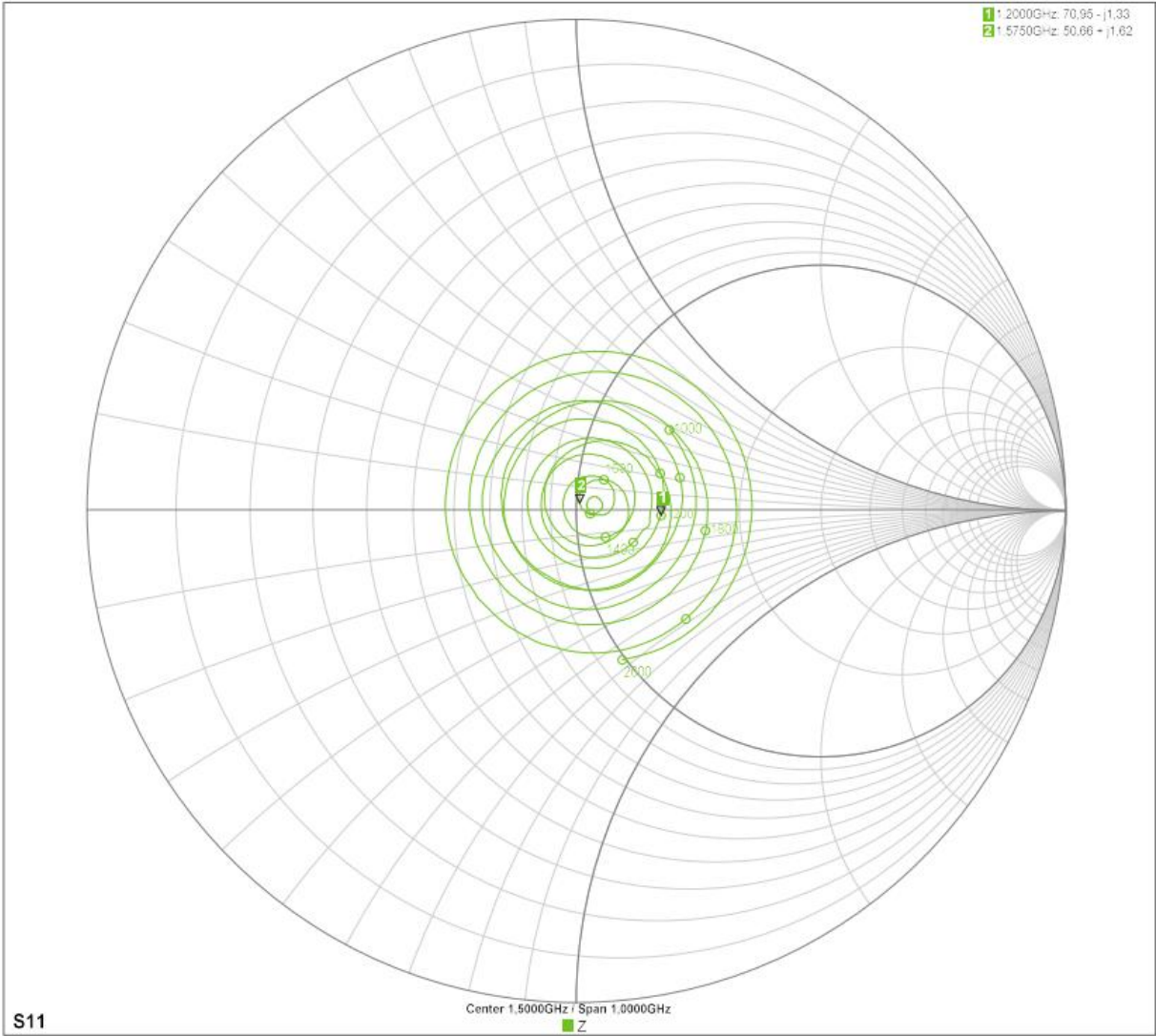
#### Forward Loss



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ERF4106

Impedance

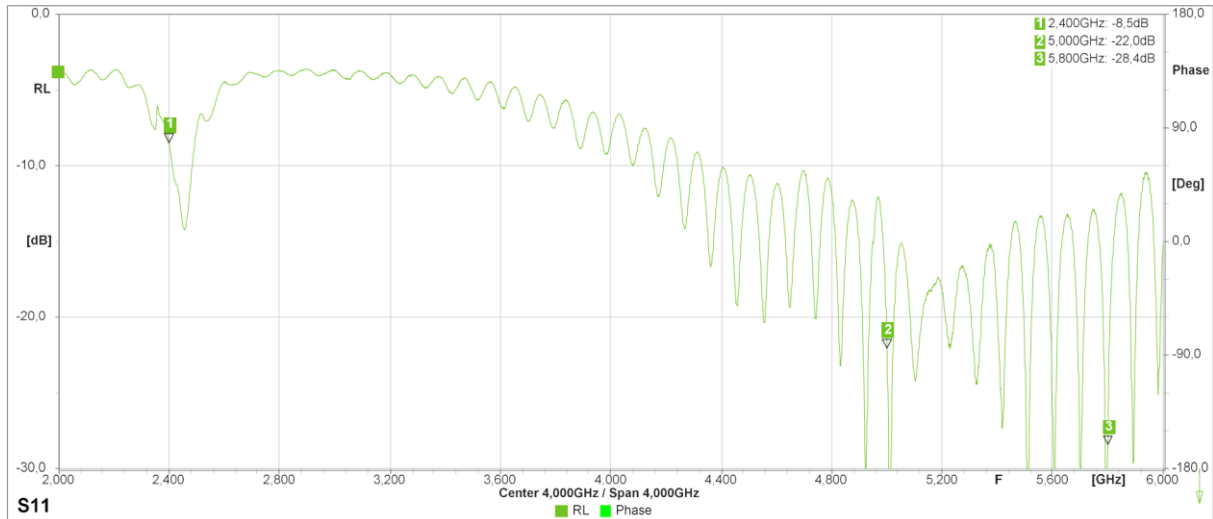


# Antenna, Puck Triple

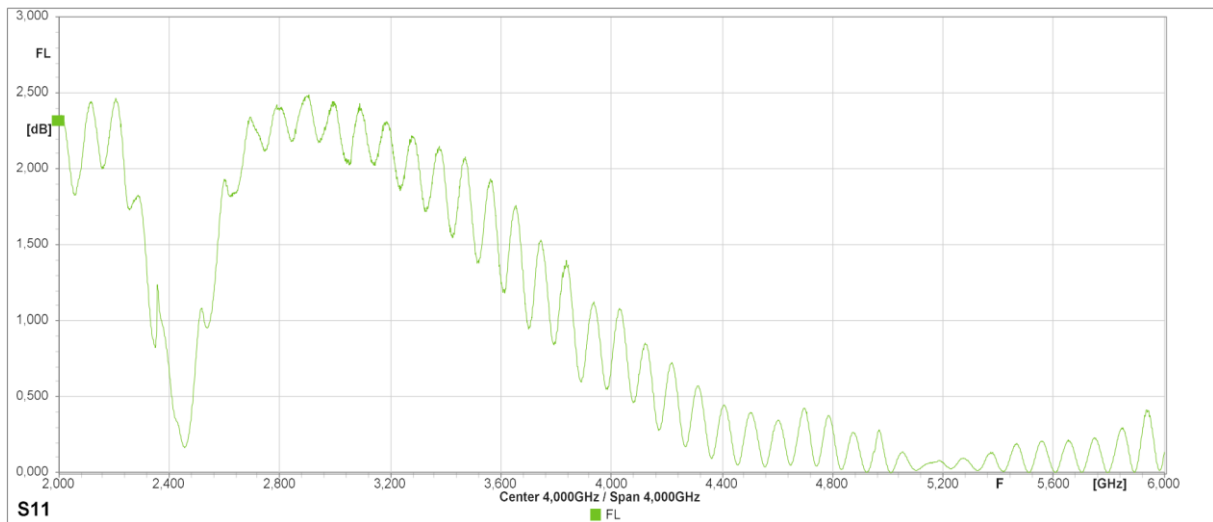
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### Properties Antenna 3 WiFi

#### Return Loss



#### Forward Loss

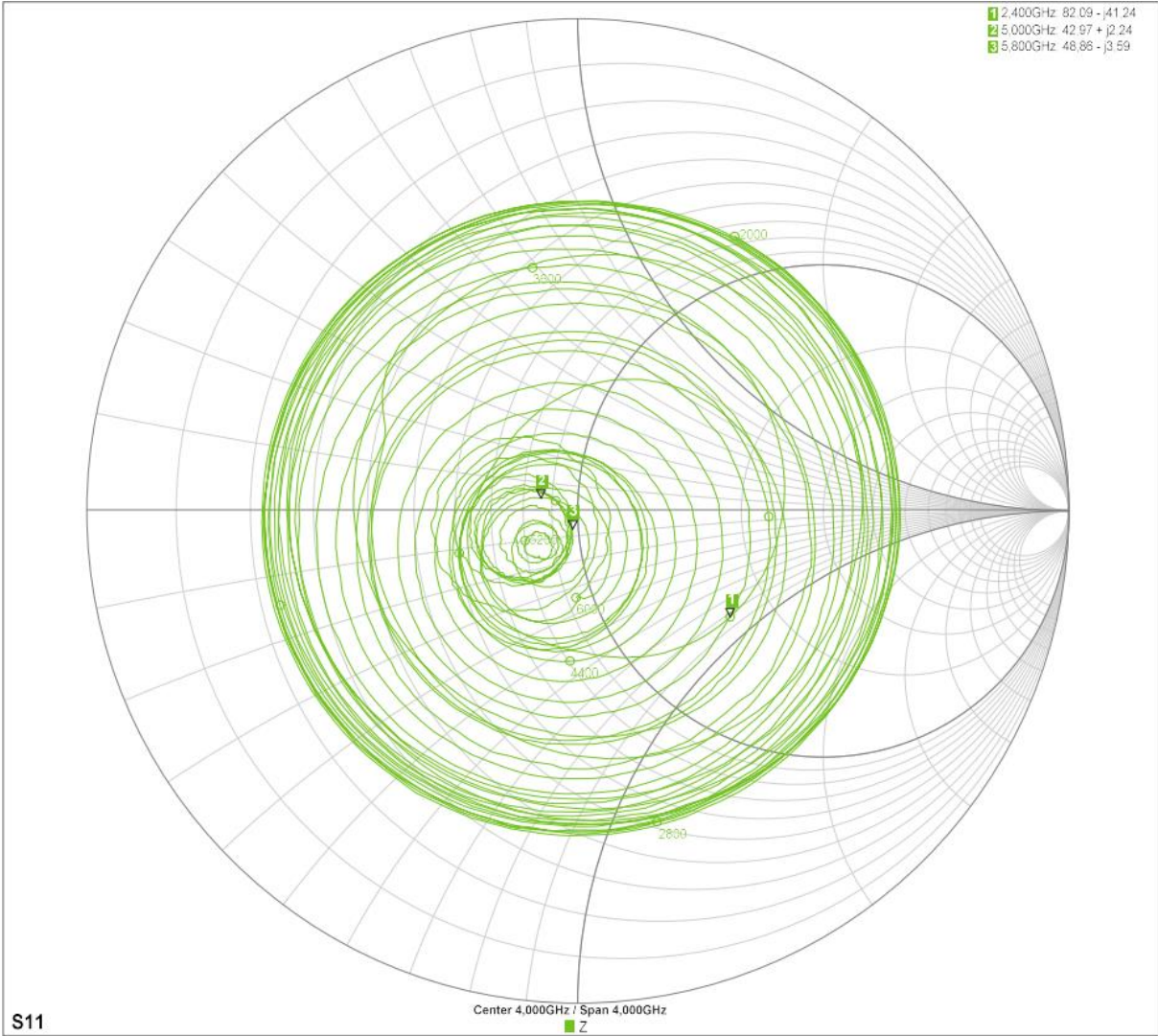




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Impedance

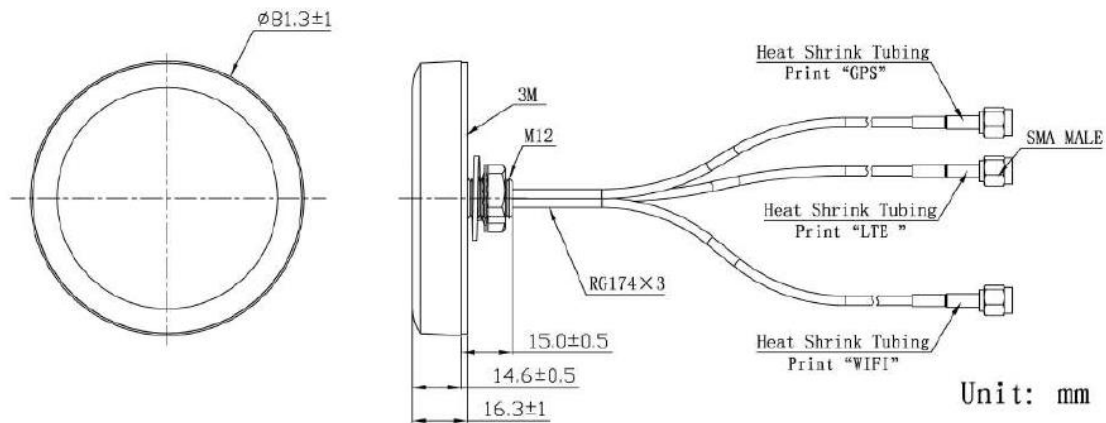


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## Dimensions

\*unit: mm



## Connectors



The ERF4106 antenna uses 3x SMA Male connector.

## 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)

## Document revision

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