

# Antenna, Whip Hinge

## ERF4091

### Description

The ERF4091 antenna is an external 868 / 2400 MHz antenna with a SMA male connector. The hinged design enables the antenna to be positioned at its most suitable angle with a maximum of 90°. The antenna can be used for applications such as, LoRa, Zigbee, Wi-Fi, Bluetooth and M2M communication.

### Network / Communication Protocols

- LoRa
- Zigbee
- Wi-Fi
- Bluetooth



### Features

#### Electrical Properties

#### Description

Frequency marker	Frequency band MHz	Return loss dB	V.S.W.R.
1	868	-14,9	< 1.4
2	915	-3,8	< 4.6
3	2.400	-7.0	< 2.6
4	3.100	-5.5	< 3.3
5	5.000	-3.4	< 5.2
6	5.800	-8.1	< 2.3
7	6.000	-4.9	< 3.6
<b>Nominal Impedance</b>		50 Ω	

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<b>Polarization</b>	Linear
<b>Gain</b>	3 dBi

<b>Mechanical Properties</b>	<b>Description</b>
<b>Antenna</b>	External Whip Antenna
<b>Mounting</b>	Screw type
<b>Connector</b>	SMA male
<b>Antenna</b>	197 mm $\pm$ 3
<b>Antenna</b>	Black
<b>Operating Temperature</b>	-40°C~+85°C
<b>Storage Temperature</b>	-40°C~+85°C

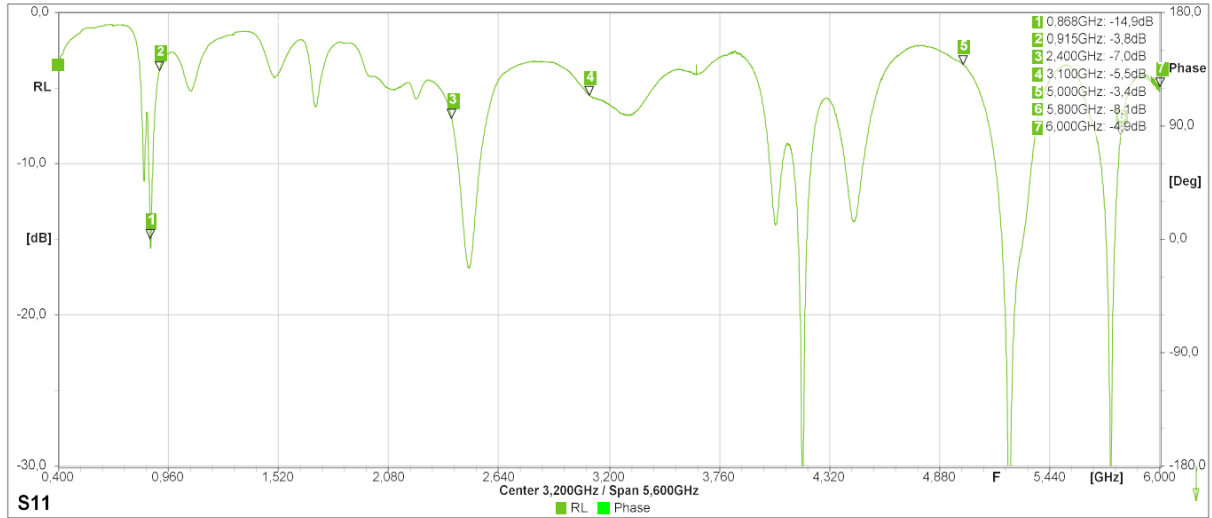
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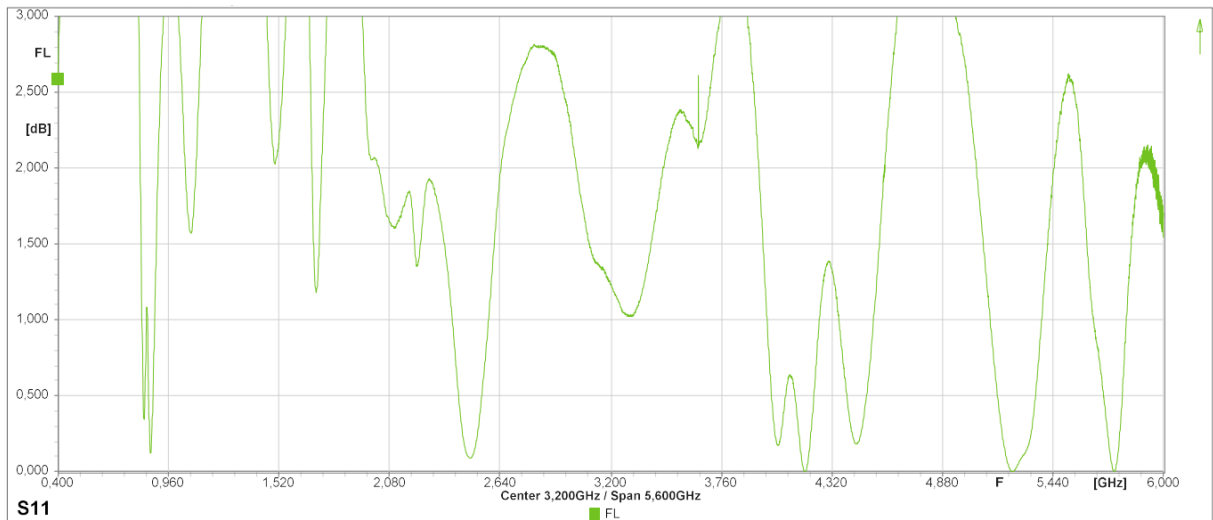


## Antenna Properties

### Return Loss



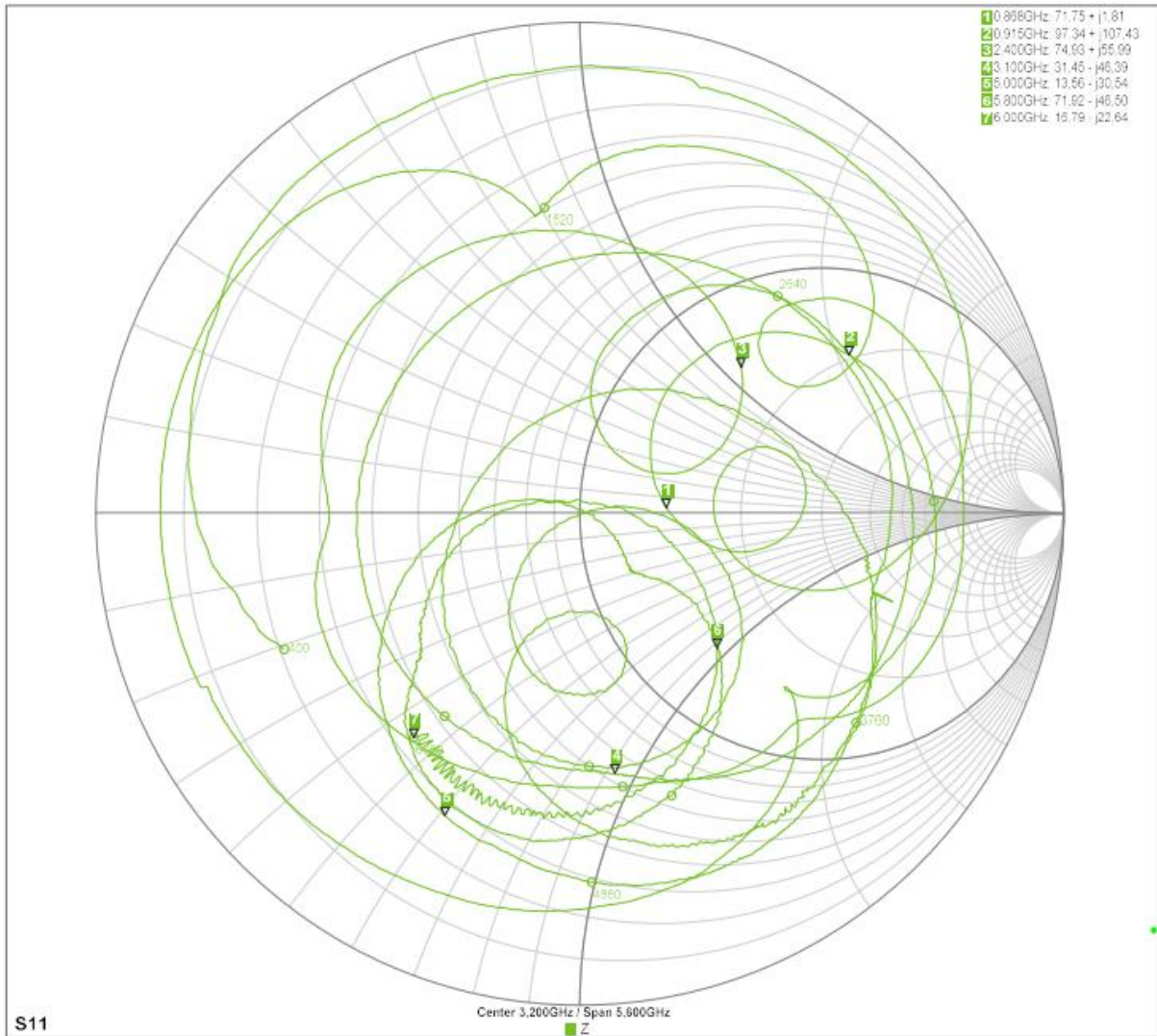
### Forward Loss



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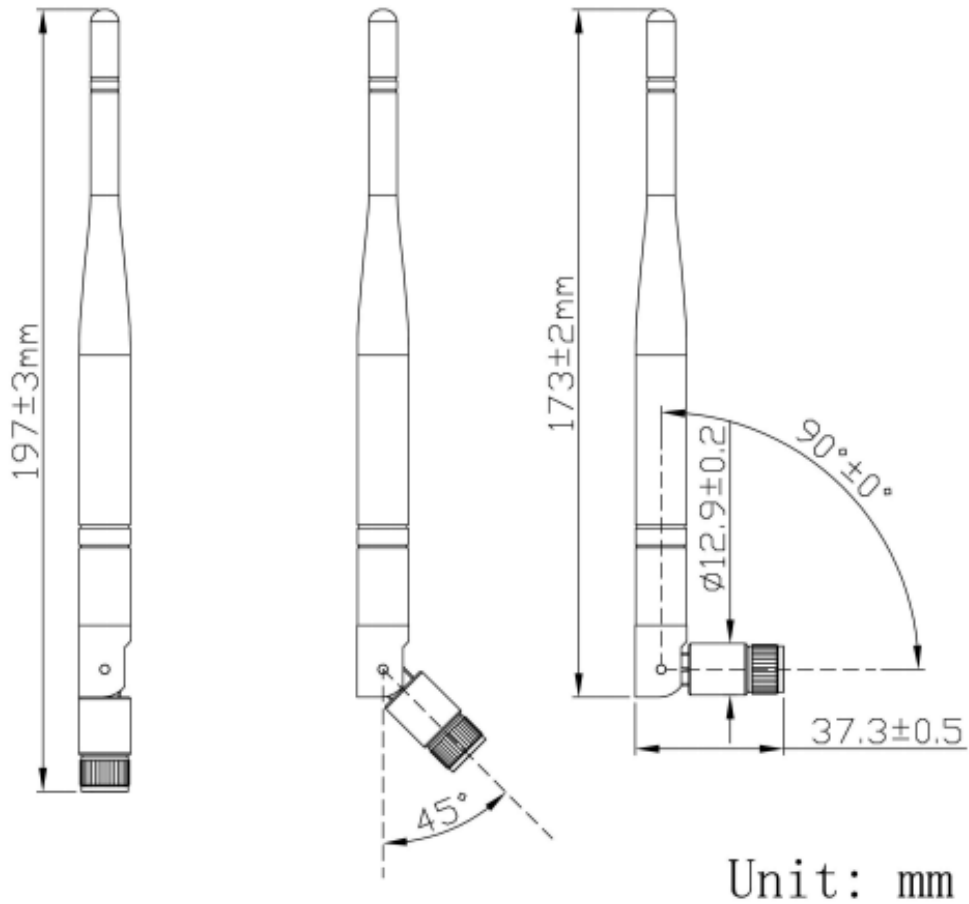
Impedance



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## Dimensions



## Connector



**SMA Male**



**SMA Female**



**RP-SMA Male**



**RP-SMA Female**

The ERF4091 uses a SMA male connector.

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## 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