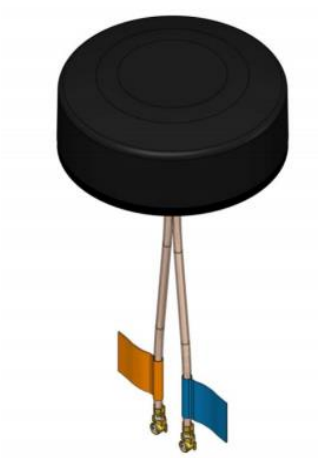
Antenna, Puck Dual
ERF4114

Description

The ERF4114 antenna is an external GSM/UMTS and GPS antenna with a 2 SMA connectors. The antenna can be used for applications such as, GSM, M2M, 2G/3G/4G and more.



Technology

- LTE-M / CAT-M
- WiFi
- Bluetooth
- Zigbee
- ISM
- GPS / GNSS
- GSM
- GPRS
- 2G/3G/4G

Features

Mechanical properties	Description
Antenna	External Puck Antenna
Connector	SMA (2x)
Dimensions	46,6 mm
Color	Black
Cable type	RG-178
Cable Length	1500 mm (2x)
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	800	-10.4	< 1.9	1.200	-5.7	< 3.2
2	868	-12.5	< 1.6	1.575	-21.2	< 1.2
3	900	-9.3	< 2.0	-	-	-
4	915	-10.5	< 1.9	-	-	-
5	1.800	-9.8	< 2.0	-	-	-
6	1.900	-8.7	< 2.2	-	-	-
7	2.100	-8.3	< 2.2	-	-	-
8	2.400	-8.7	< 2.2	-	-	-
9	2.600	-8.2	< 2.3	-	-	-
10	5.000	-11.4	< 1.7	-	-	-
11	5.800	-13.8	< 1.5	-	-	-
Nominal Impedance		50 Ω				
Polarization		Linear, Cellular RHCP, GNSS				
Gain		2 dBi				

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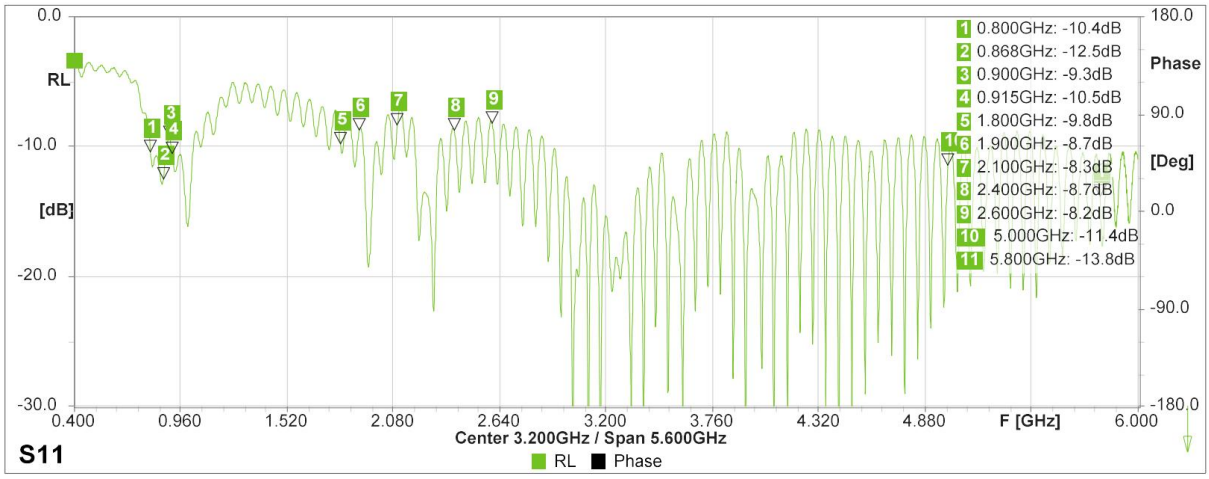
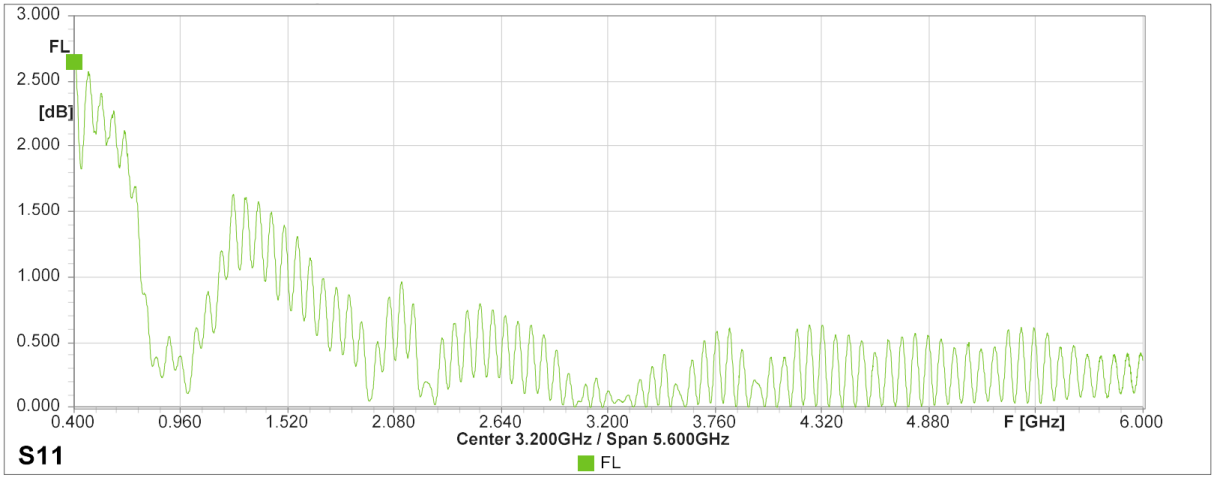
Antenna properties

Antenna 1 Cellular

Return Loss



Forward Loss



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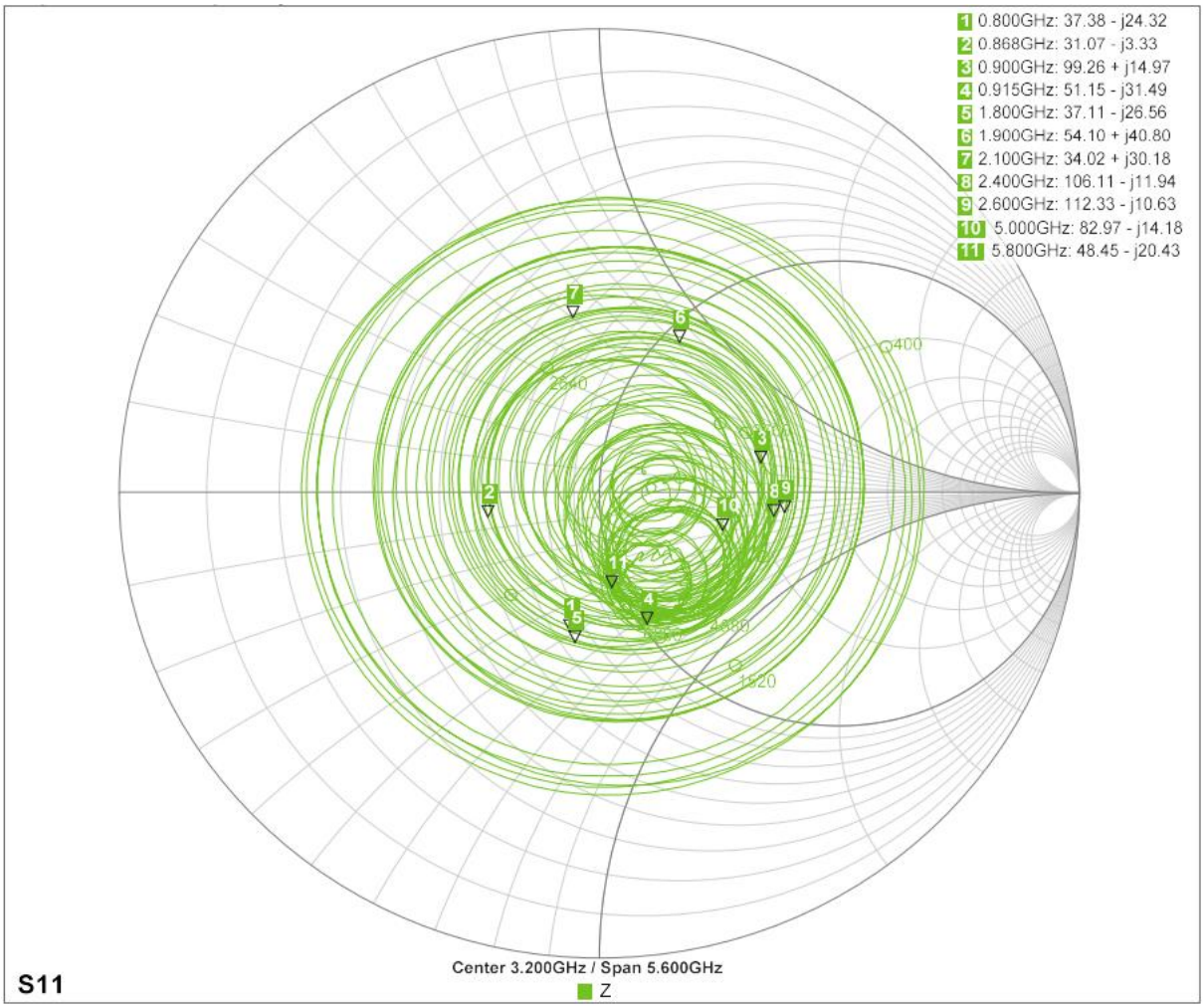
Impedance



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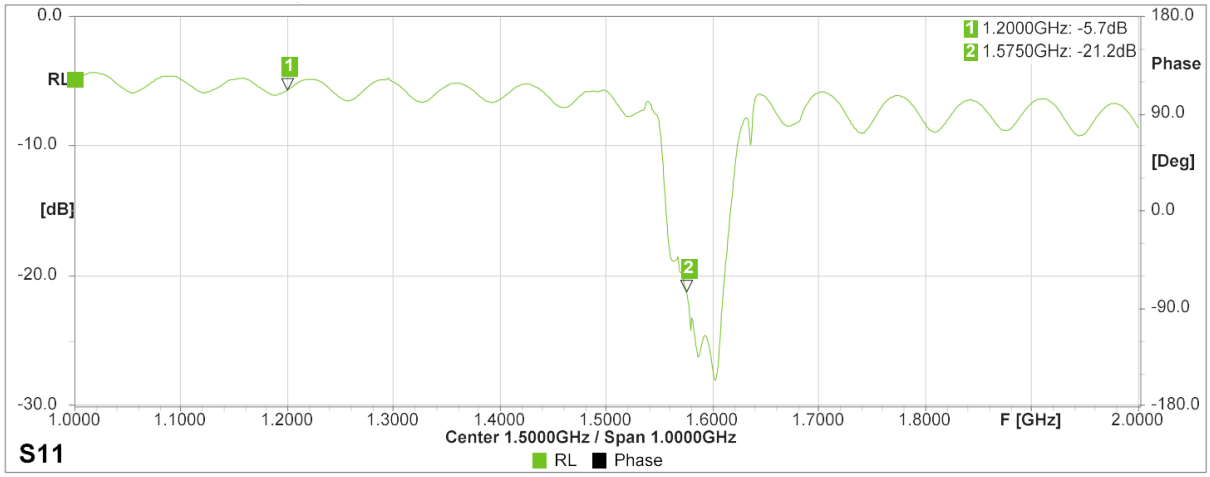
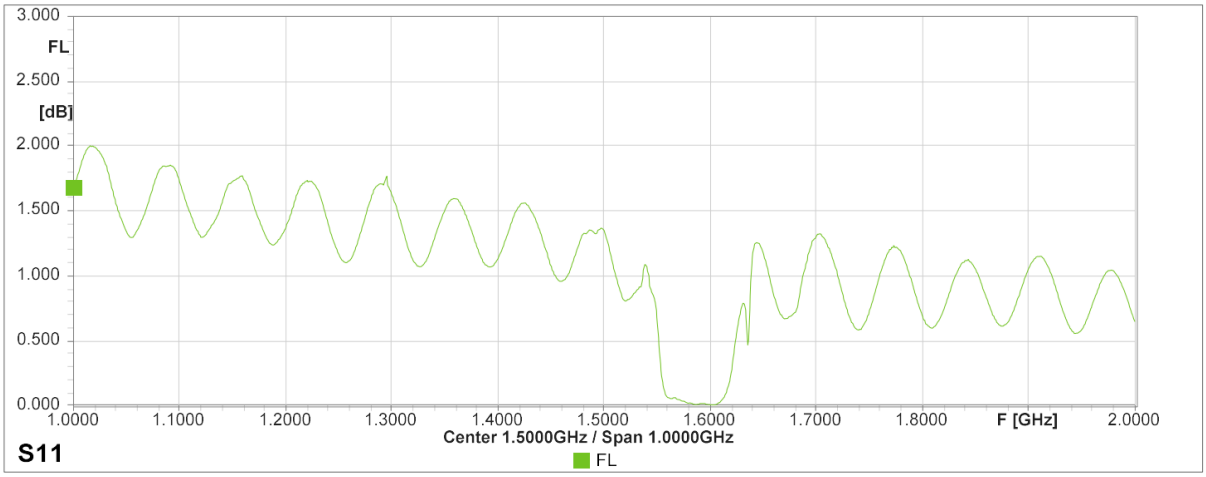
Antenna 2 Cellular

Return Loss



Forward Loss



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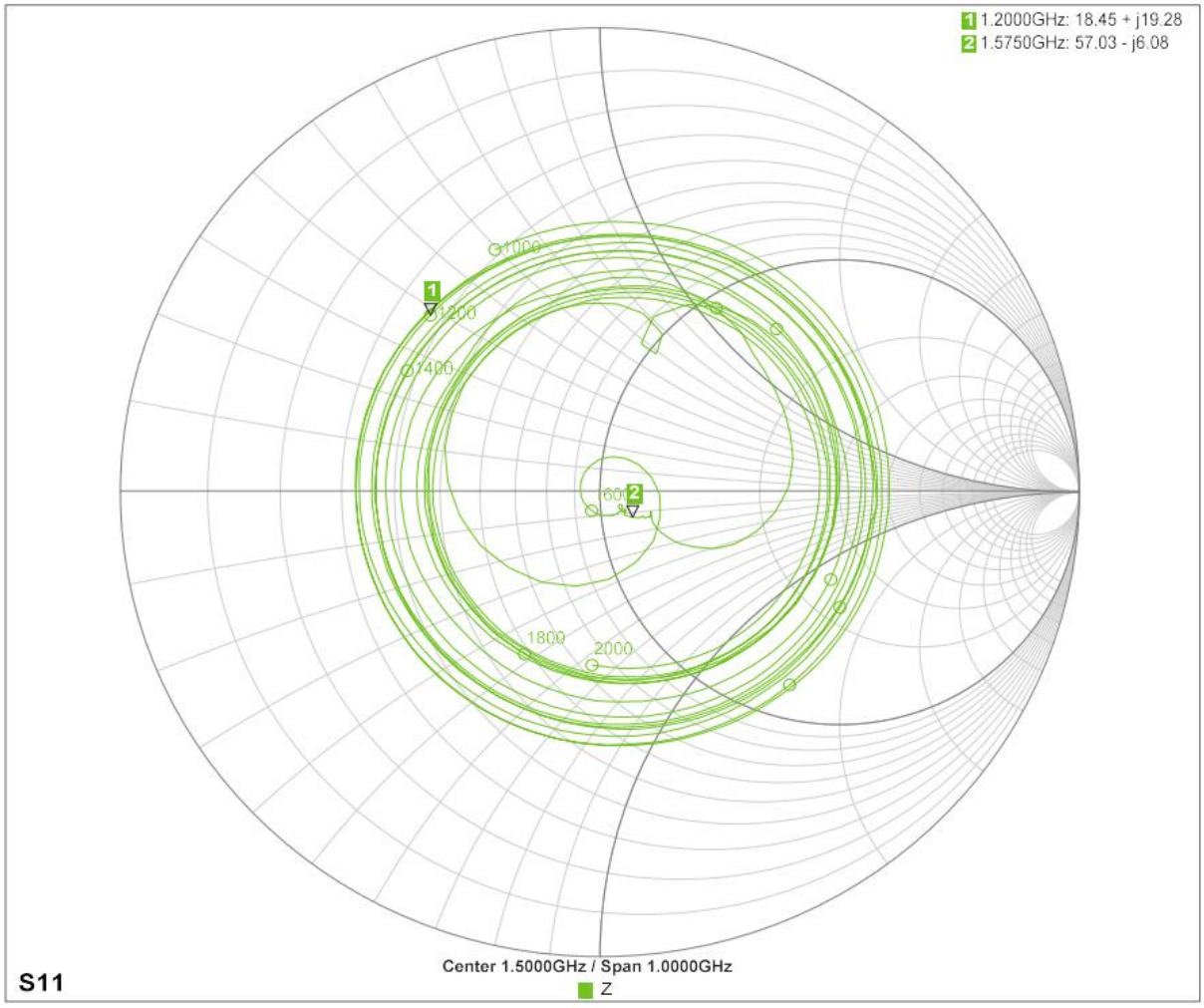
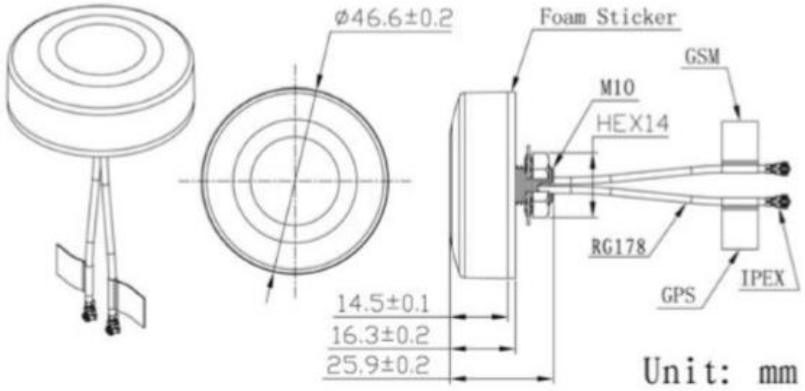
Impedance



Dimensions

*image for reference only, the antenna uses 2x SMA Male connectors



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Connectors

The ERF4114 antenna uses 2x SMA Male connector.

Ordering information

Ordering can be done via www.summit-electronics.com or via 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

Document revision

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