

Antenna, Puck Dual

ERF4109

Description

The ERF4109 antenna is a black LTE and GPS “puck” antenna with a M12 mounting and 2 SMA Male connectors. The M12 mounting allows for easy integration, in an enclosure. The antenna can be used for applications such as, M2M, LTE, UMTS, GPRS, NB-IoT, CAT-M, and GNSS.

Technology

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



Mechanical Properties

Description

Antenna	External Puck Antenna
Mounting	Screw Type (M12 mounting) , and adhesive tape
Connector	2x SMA (Male)
Dimensions	81.3 \varnothing mm \pm 1
Color	Black
Cable Length	150 cm \pm 0.5
Cable Type	RG174
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C
Ingress Protection	IP67 (excluding cable outlet)

Antenna, Puck Dual

ERF4109



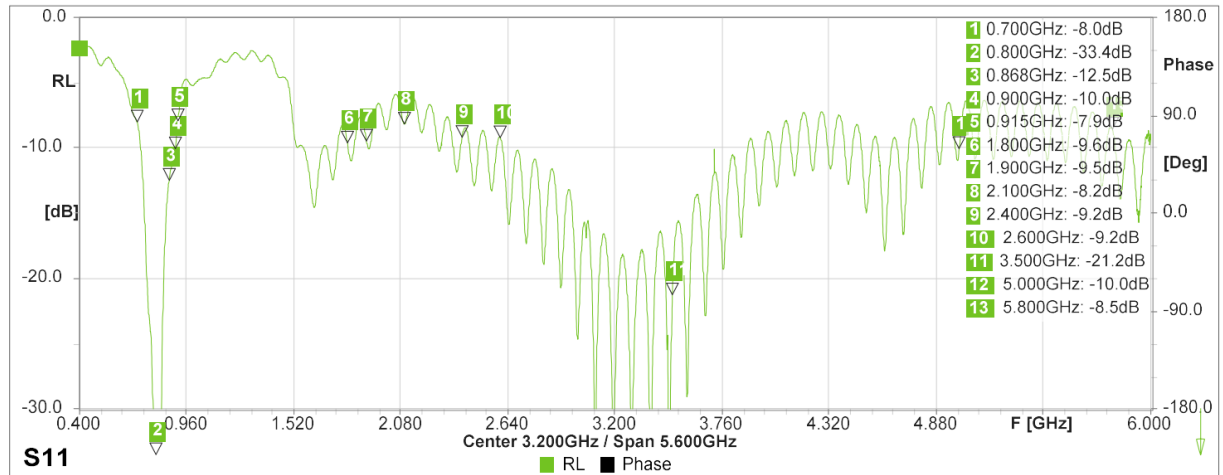
Electrical Properties	Antenna 1 Cellular			Antenna 2 GNSS			
	Frequency marker	Frequency band MHz	Return loss dB	V.S.W.R.	Frequency band MHz	Return loss dB	V.S.W.R.
	1	700	-8.0	< 2.3	1.200	-14.2	< 1.5
	2	800	-33.4	< 1.0	1.575	-39.3	< 1.0
	3	868	-12.5	< 1.6	-	-	-
	4	900	-10.0	< 1.9	-	-	-
	5	915	-7.9	< 2.3	-	-	-
	6	1.800	-9.6	< 2.0	-	-	-
	7	1.900	-9.5	< 2.0	-	-	-
	8	2.100	-8.2	< 2.3	-	-	-
	9	2.400	-9.2	< 2.1	-	-	-
	10	2.600	-9.2	< 2.1	-	-	-
	11	3.500	-21.2	< 1.2	-	-	-
	12	5.000	-10.0	< 1.9	-	-	-
	13	5.800	-8.5	< 2.2	-	-	-
Nominal Impedance	50 Ω						
Polarization	Linear, Cellular RHCP, GNSS						
Gain	2.5 dBi Cellular 2 dBi, GPS 28±2 dBi, LNA						
Supply voltage	3 ~ 5V, DC						
Current consumption	< 20 mA						

Antenna, Puck Dual

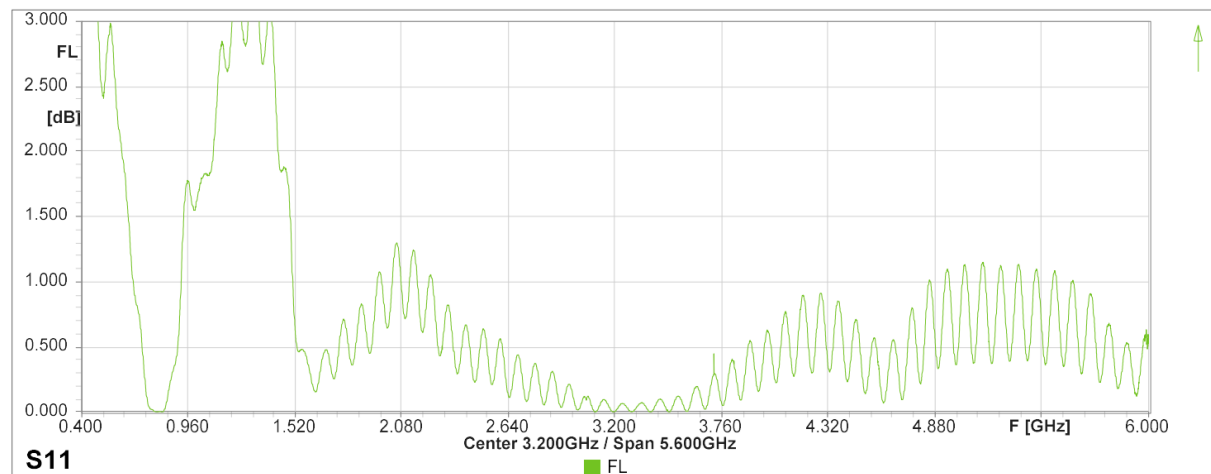
ERF4109

Properties Antenna 1 Cellular

Return Loss



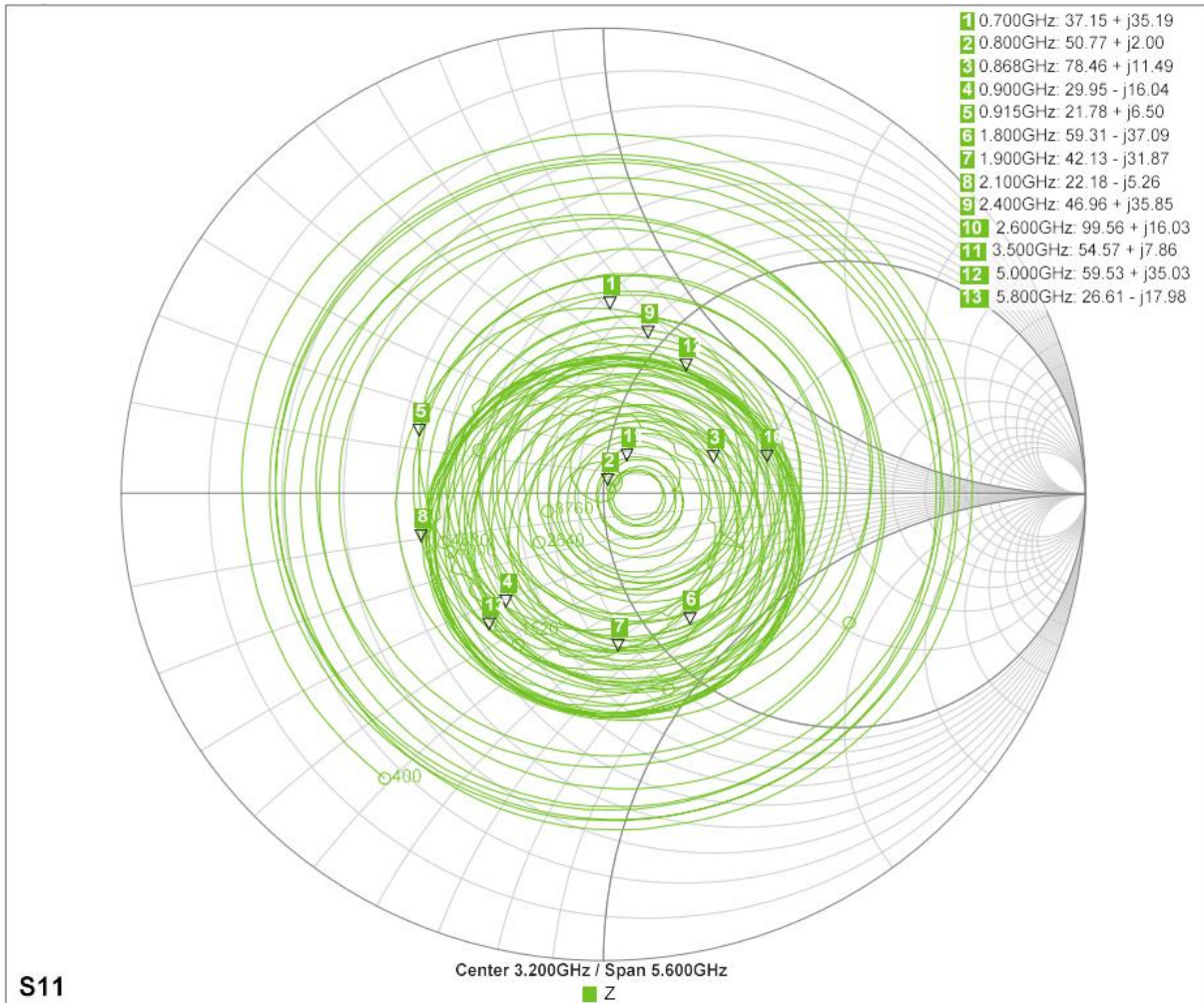
Forward Loss



Antenna, Puck Dual

ERF4109

Impedance

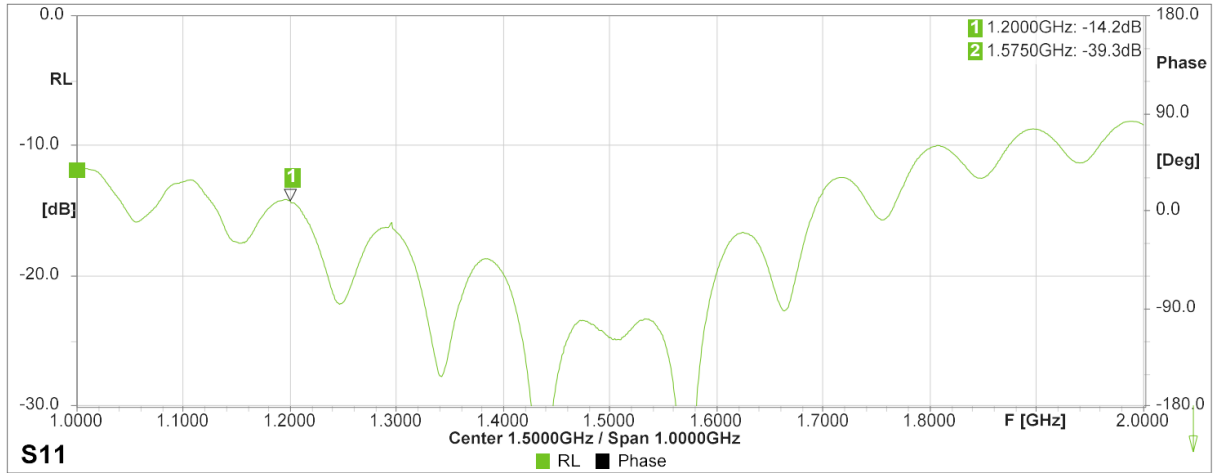


Antenna, Puck Dual

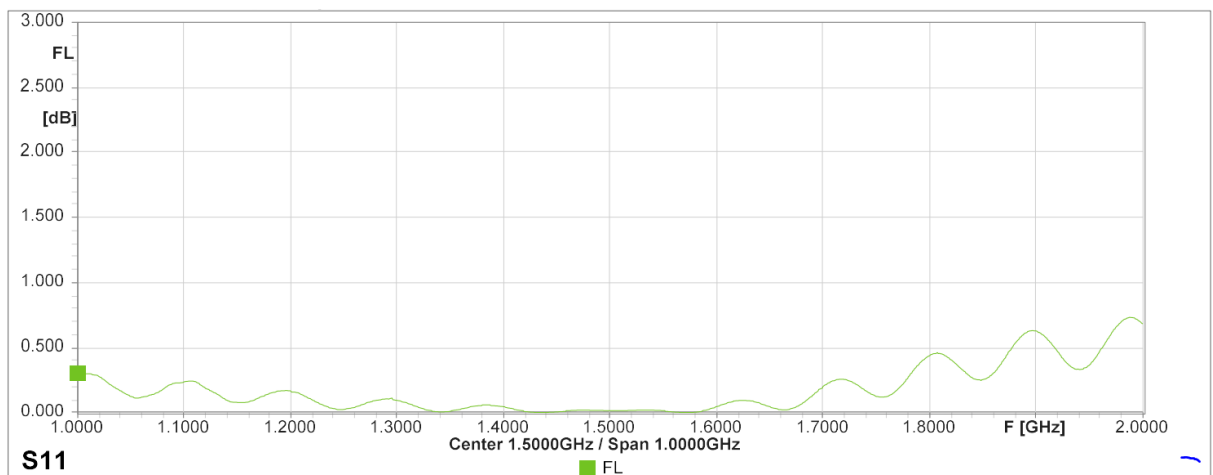
ERF4109

Properties Antenna 2 GNSS

Return Loss



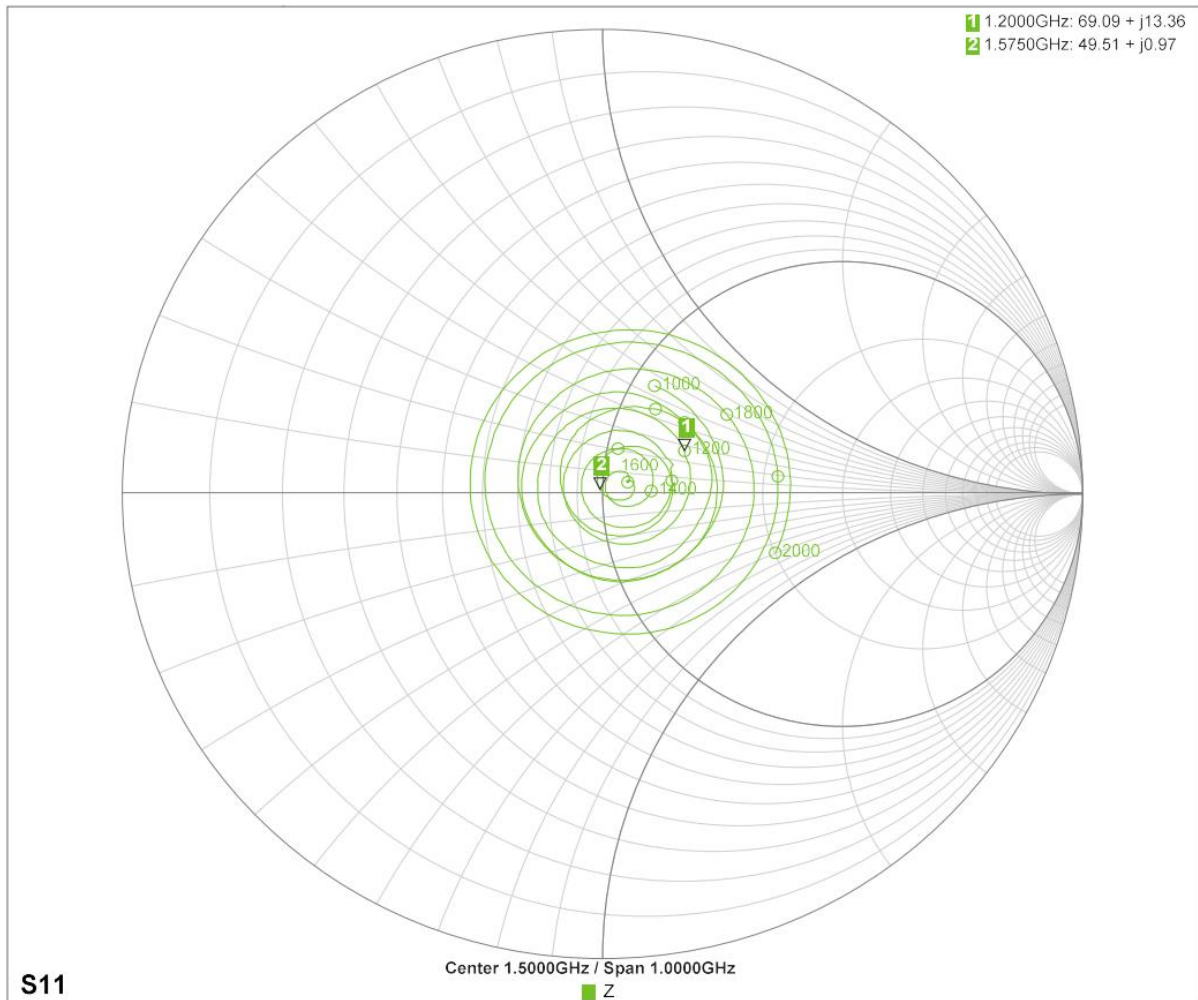
Forward Loss



Antenna, Puck Dual

ERF4109

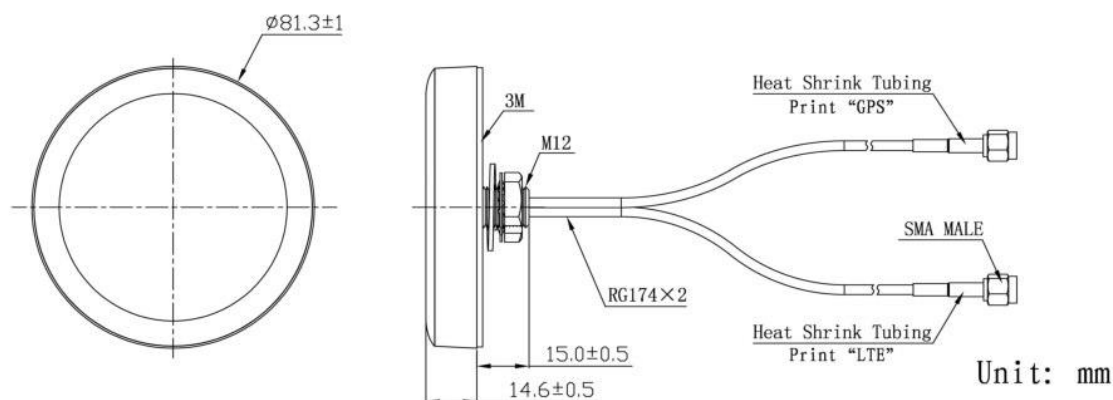
Impedance



Antenna, Puck Dual

ERF4109

Dimensions



Connectors



The ERF4109 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

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