

Antenna, Puck Dual

ERF4112-eco

Description

The ERF4100 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 etc.. 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
- LoRa
- UMTS
- GPRS
- NB-IoT
- GPS / GNSS
- 5G/4G/3G/2G

Features

Mechanical Properties	Description
Antenna	External Antenna
Dimensions	81.3 \varnothing mm \pm 1
Mounting	Screw Type and adhesive
Connector	2x SMA (Male) 90° fixed
Color	Black
Cable type	RG-174 u
Cable length	60 mm
Operating Temperature Range:	-40°C~+85°C
Storage Temperature Range:	-40°C~+85°C

Antenna, Puck Dual

ERF4112-eco



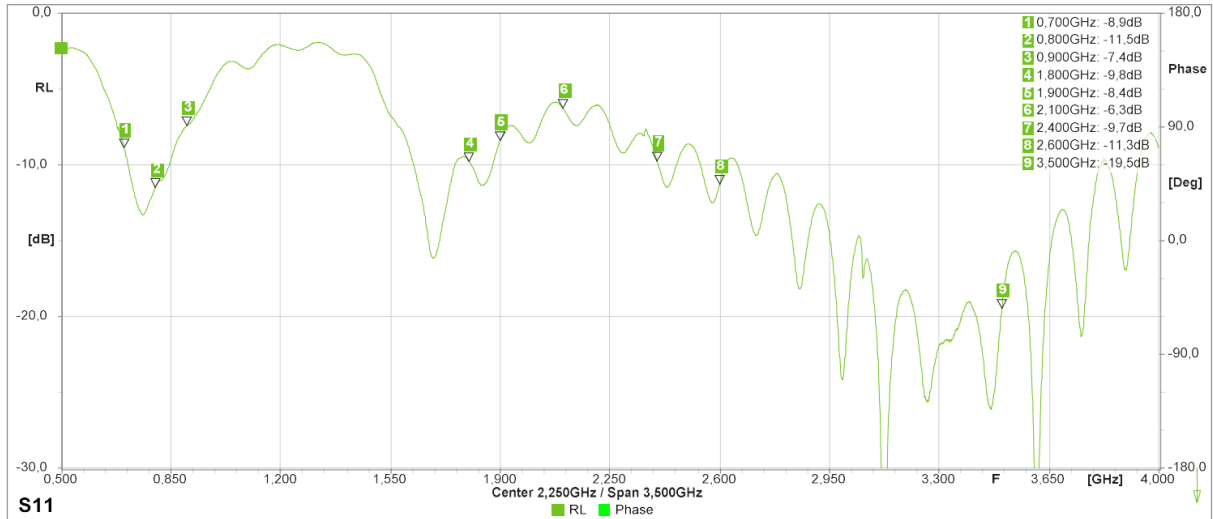
Electrical Properties	Antenna 1			Antenna 2		
	Cellular			GNSS		
Frequency marker	Frequency band MHz	Return loss dB	V.S.W.R.	Frequency band MHz	Return loss dB	V.S.W.R.
1	700	-8.9	< 2.1	1.200	-17.6	< 1.3
2	800	-11.5	< 1.7	1.575	-28.8	< 1.1
3	900	-7.4	< 2.5	-	-	-
4	1.800	-9.8	< 2.0	-	-	-
5	1.900	-8.4	< 2.2	-	-	-
6	2.100	-6.3	< 2.9	-	-	-
7	2.400	-9.7	< 2.0	-	-	-
8	2.600	-11.3	< 1.7	-	-	-
9	3.500	-19.5	< 1.2	-	-	-
Nominal Impedance	50 Ω					
Polarization	RHCP Cellular Linear GPS					
Gain	2 dBi (Zenith) GPS 28 ± 2 dB LNA 2.5 dB Cellular					
Supply Voltage:	3 ~ 5V DC					
Current Consumption:	< 15mA					

Antenna, Puck Dual

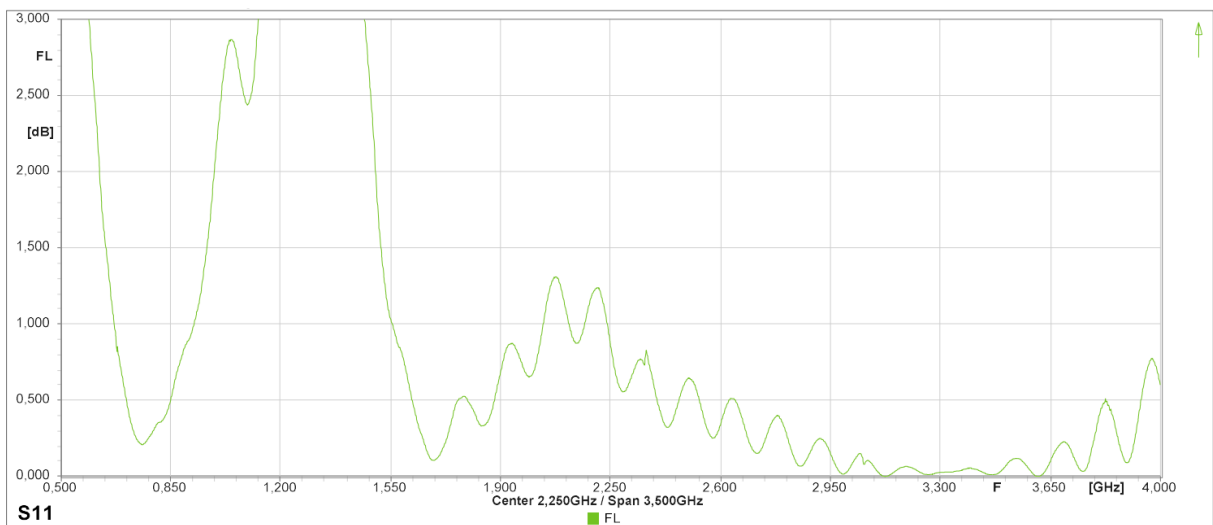
ERF4112-eco

Properties Antenna 1 Cellular

Return Loss



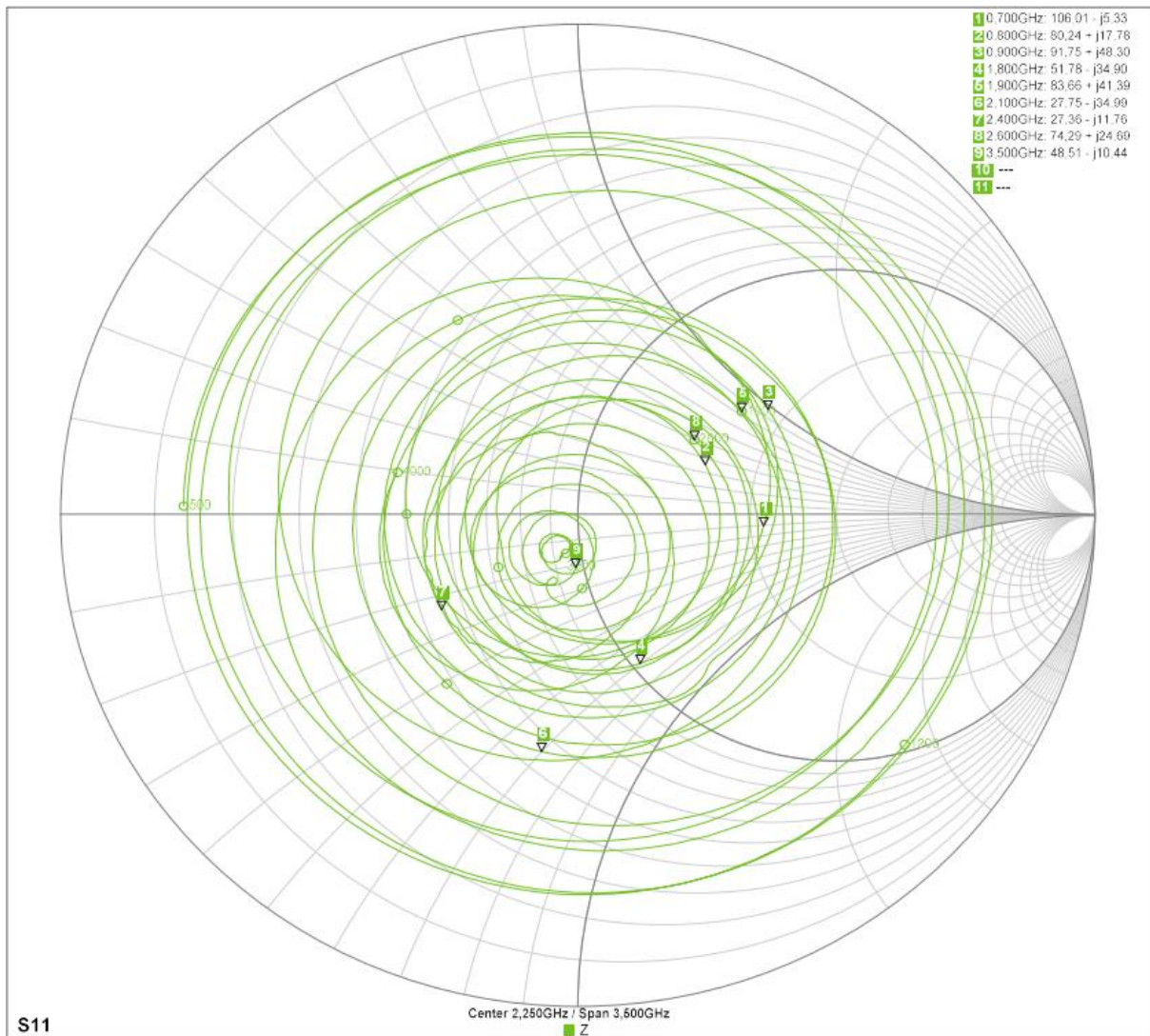
Forward Loss



Antenna, Puck Dual

ERF4112-eco

Impedance

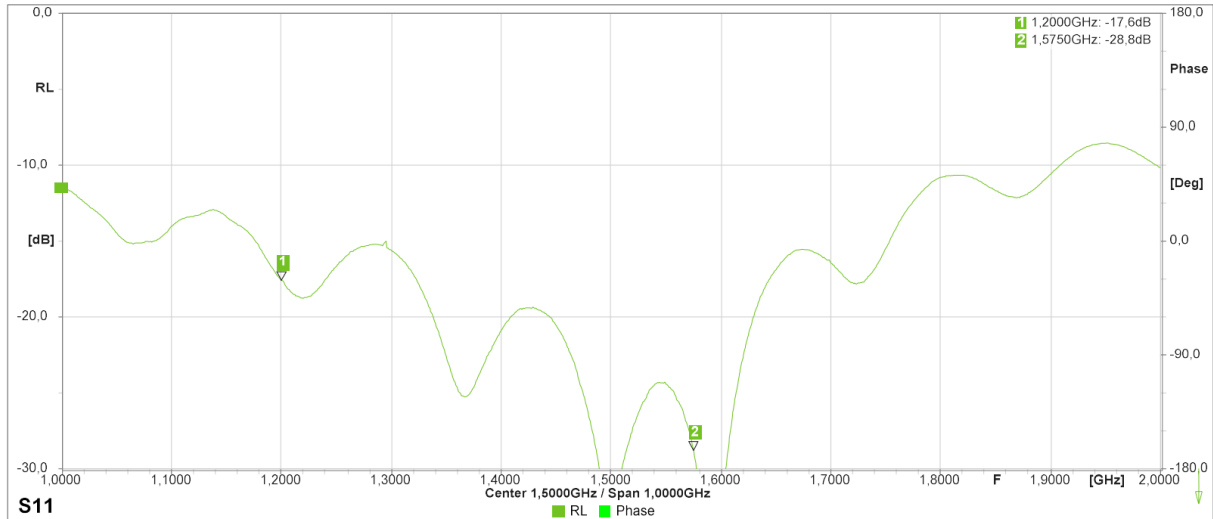


Antenna, Puck Dual

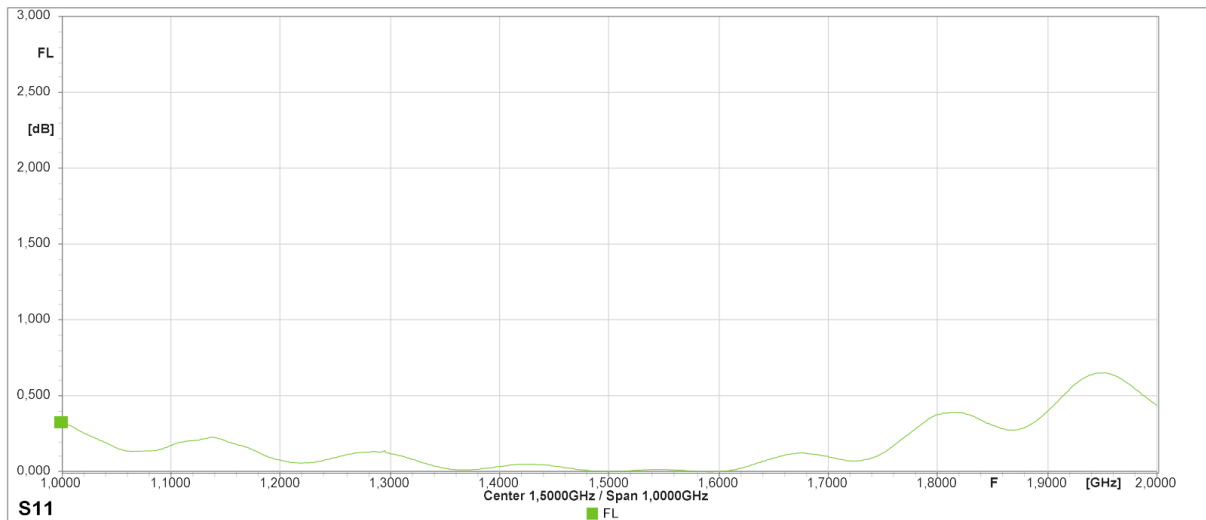
ERF4112-eco

Properties Antenna 2 GPS

Return Loss



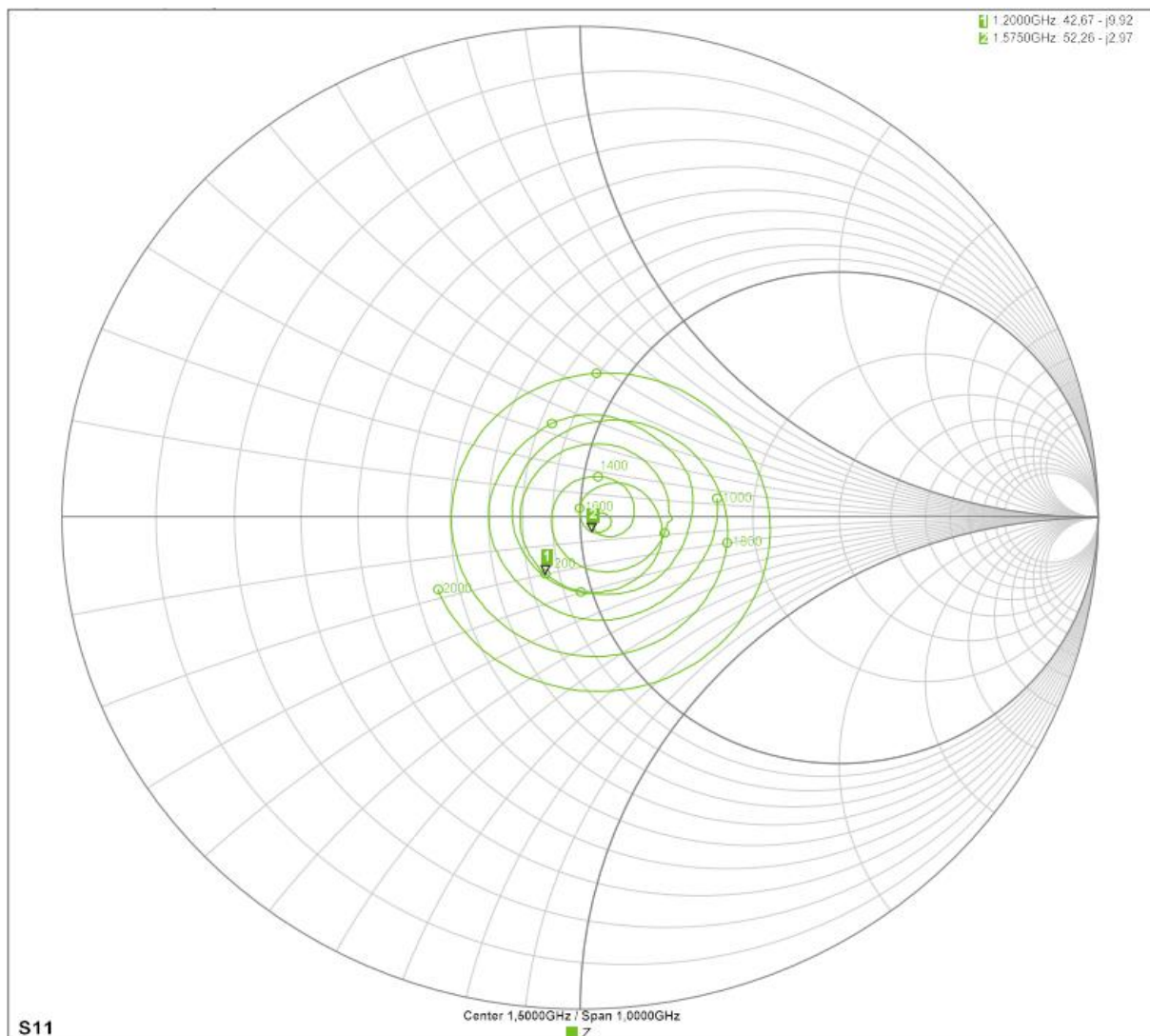
Forward Loss



Antenna, Puck Dual

ERF4112-eco

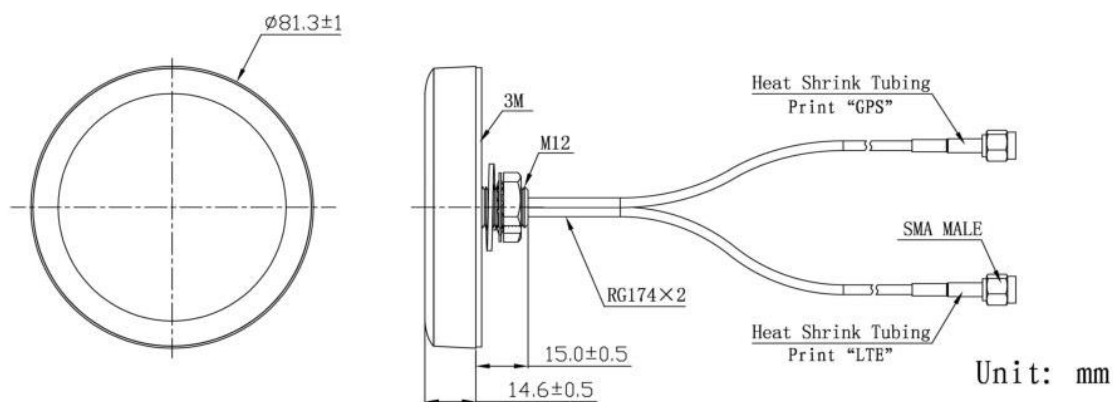
Impedance



Antenna, Puck Dual

ERF4112-eco

Dimensions



Connectors



The ERF4100 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