

Antenna, Puck Dual

ERF4100

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
- UMTS
- GPRS
- NB-IoT
- CAT-M
- GNSS

Features

| Mechanical Properties | Description |
|------------------------------|------------------|
| Antenna Type: | External Antenna |
| Touch Type: | Screw Type |
| Connector Type: | 2x SMA (Male) |
| Antenna Color: | Black |
| Operating Temperature Range: | -40°C~+85°C |
| Storage Temperature Range: | -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 |
| 1 | 700 | -9.2 | < 2.0 | 1.200 | -18.3 | < 1.3 |
| 2 | 800 | -12.4 | < 1.6 | 1.575 | -25.1 | < 1.1 |
| 3 | 868 | -14.4 | < 1.5 | - | - | - |
| 4 | 900 | -15.2 | < 1.4 | - | - | - |
| 5 | 915 | -18.0 | < 1.3 | - | - | - |
| 6 | 1.800 | -41.6 | < 1.0 | - | - | - |
| 7 | 1.900 | -22.3 | < 1.2 | - | - | - |
| 8 | 2.100 | -12.8 | < 1.6 | - | - | - |
| 9 | 2.400 | -11.3 | < 1.7 | - | - | - |
| 10 | 2.600 | -16.5 | < 1.4 | - | - | - |
| 11 | 3.100 | -18.7 | < 1.3 | - | - | - |
| 12 | 3.500 | -20.0 | < 1.2 | - | - | - |
| 13 | 5.000 | -14.4 | < 1.5 | - | - | - |
| 14 | 5.800 | -15.5 | < 1.4 | - | - | - |
| 15 | 6.000 | -13.7 | < 1.5 | - | - | - |
| 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 | | | | | |

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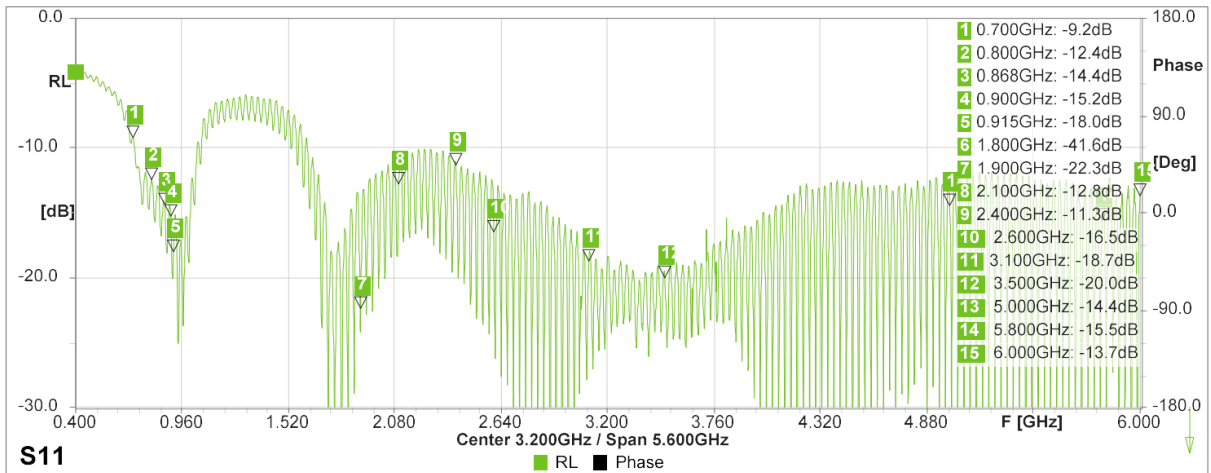
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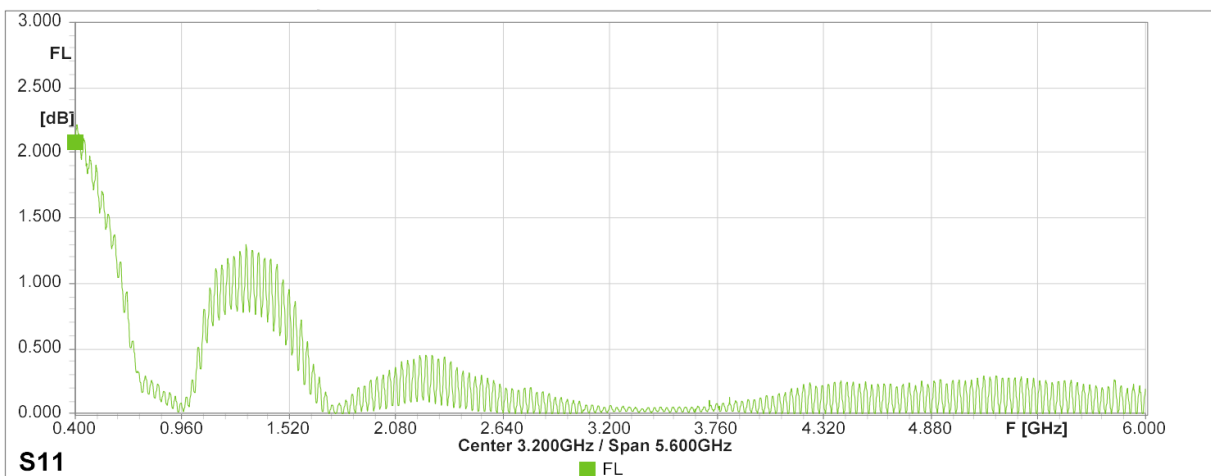
Current Consumption: < 15mA

Properties Antenna 1 Cellular

Return Loss



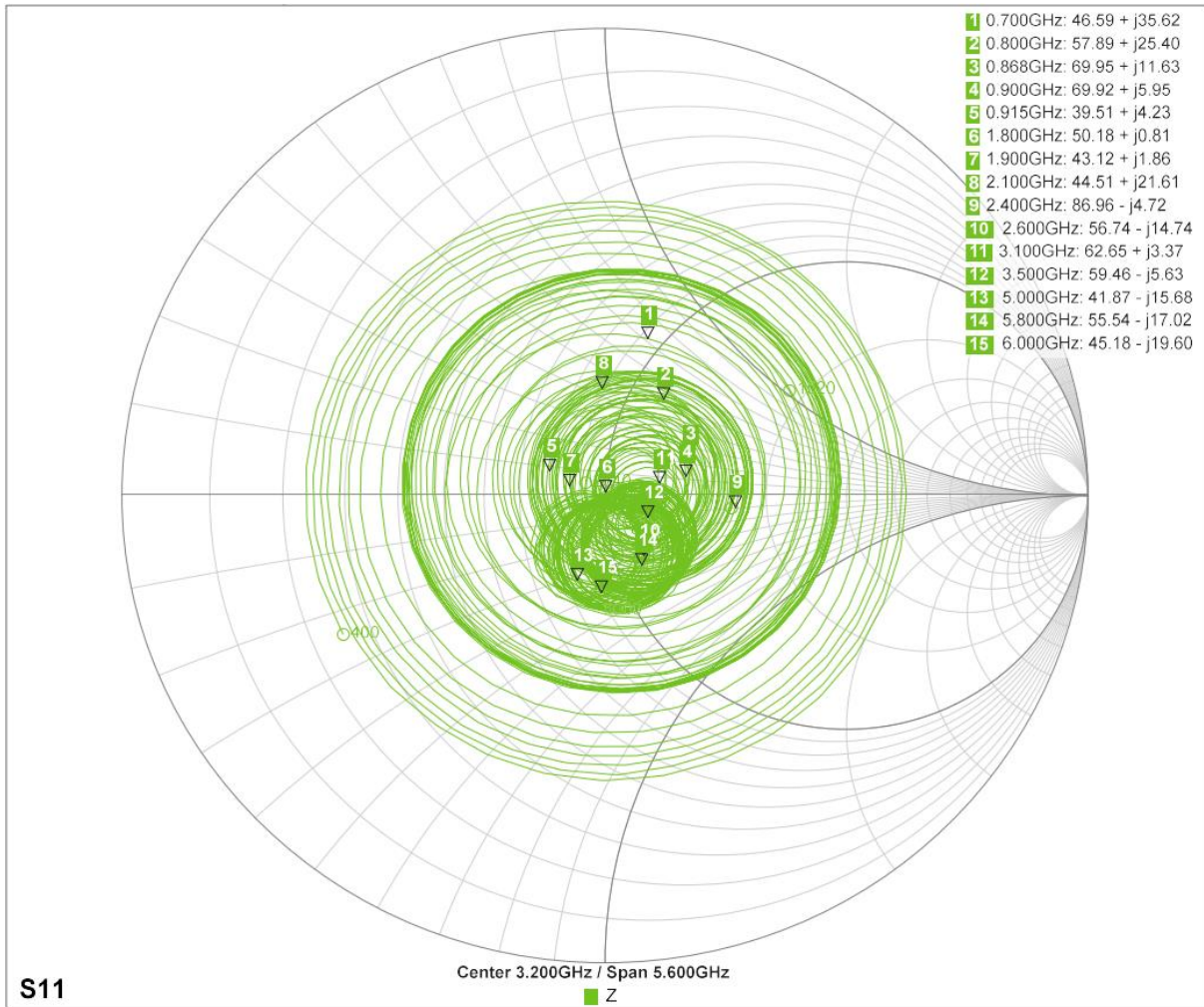
Forward Loss



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Impedance



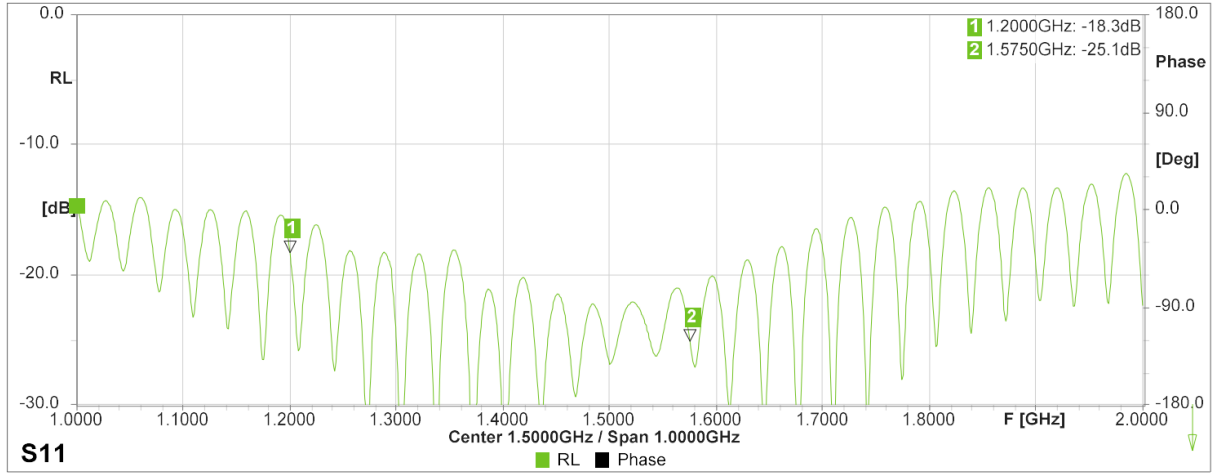
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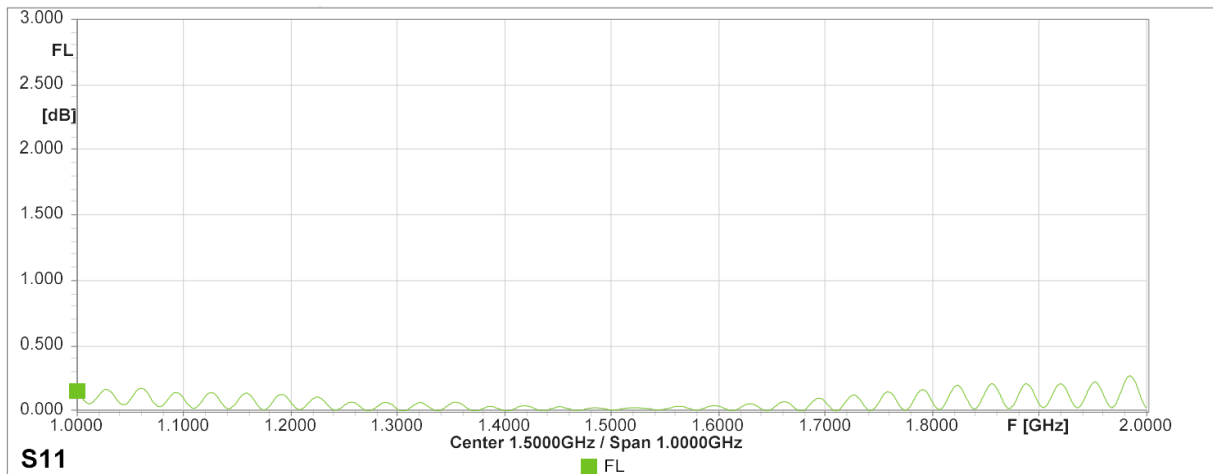


Properties Antenna 2 GPS

Return Loss



Forward Loss

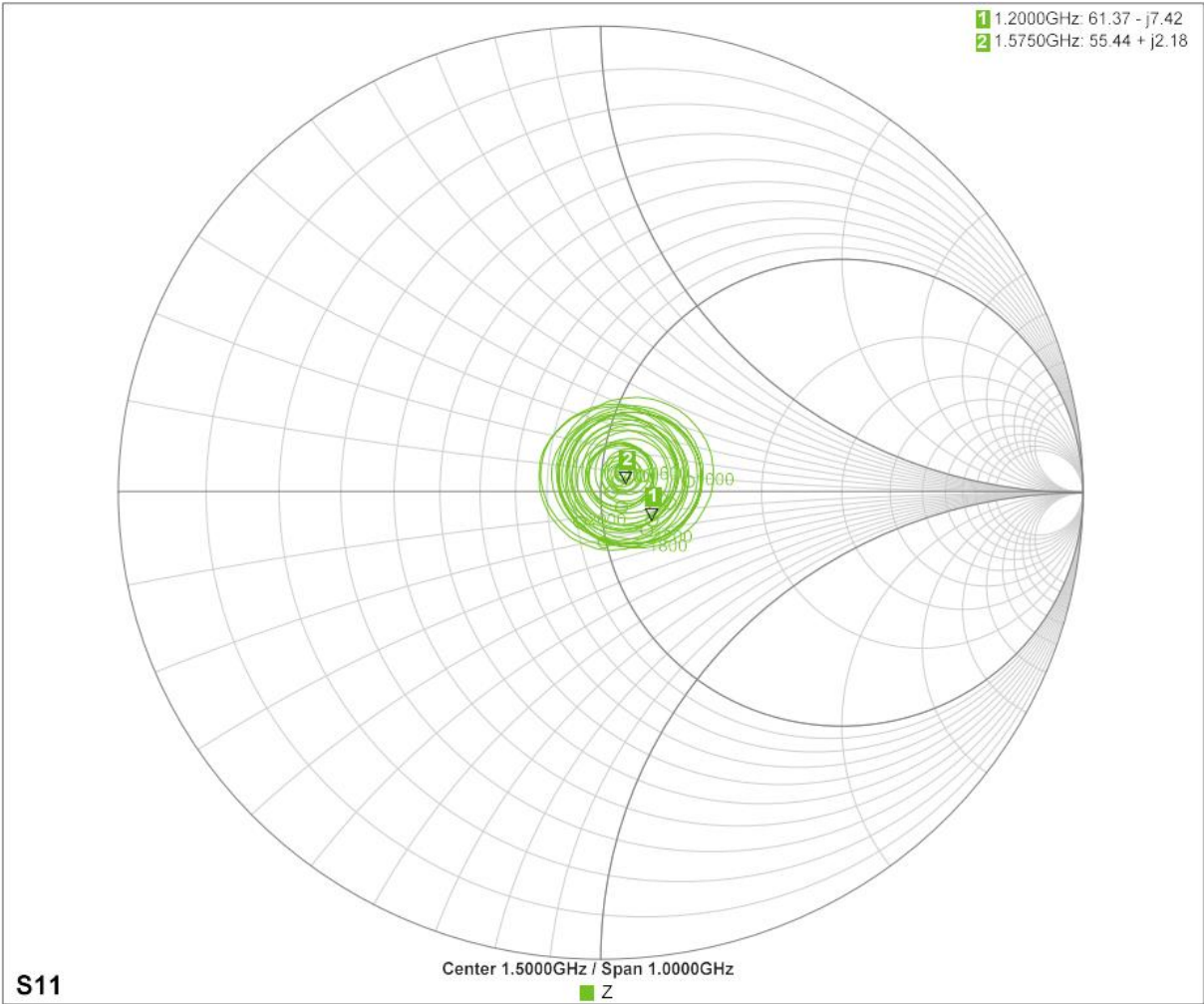


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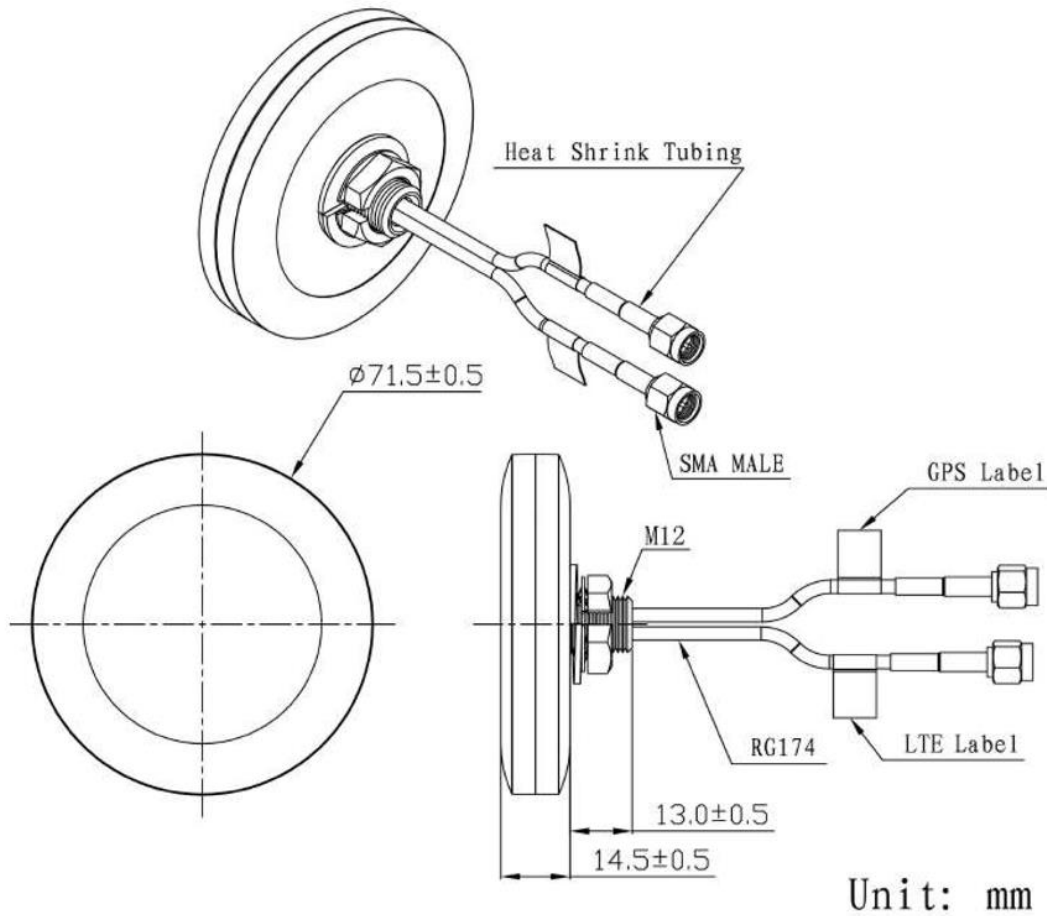
Impedance



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Dimensions



Connectors



SMA Male



SMA Female



RP-SMA Male



RP-SMA Female

The ERF4100 antenna uses 2x SMA Male connector.

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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 |