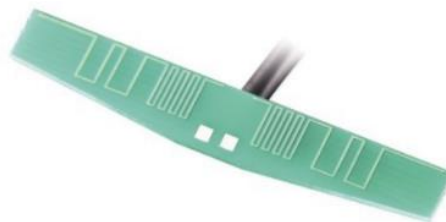


Antenna, PCB

ERF4045

Description

The ERF4045 Antenna is an internal antenna with a U.FL connector. It has a frequency range of 824 ~ 960 MHz / 1710 ~ 1990 MHz. the design enables the antenna to be easily integrated and the adhesive patch allows for easy placement. The antenna can be used for applications such as, M2M applications , IoT, LTE applications and GSM.



Technology

- LTE applications
- GSM
- LoRa

Features

Electrical Properties

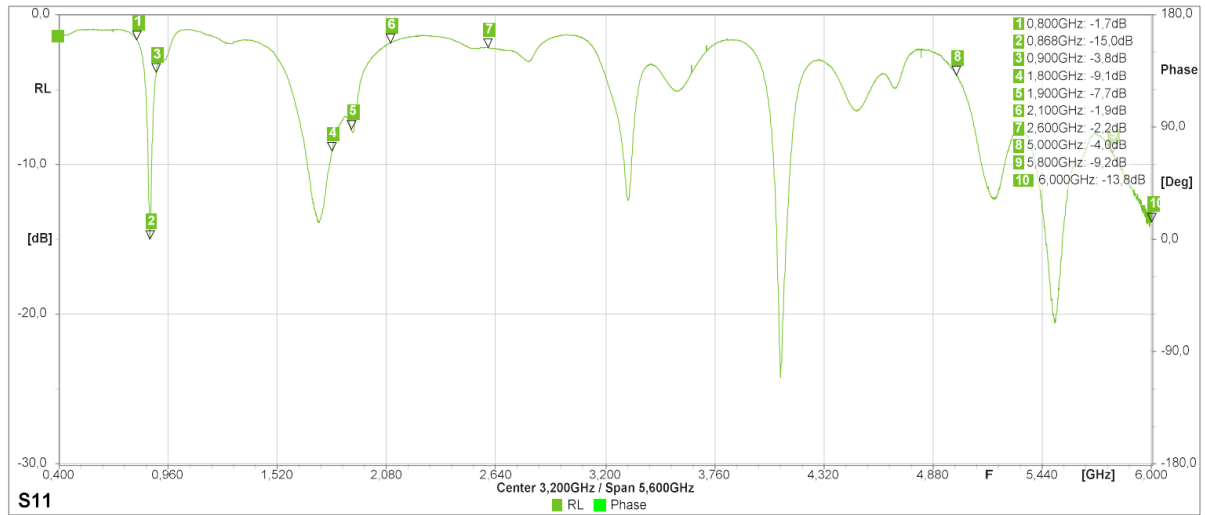
Description

| Frequency marker | Frequency band MHz | Return loss dB | V.S.W.R. |
|---------------------------|-----------------------|----------------|----------|
| 1 | 800 | -1.7 | < 10.3 |
| 2 | 868 | -15.0 | < 1.4 |
| 3 | 900 | -3.8 | < 4.6 |
| 4 | 1.800 | -9.1 | < 2.1 |
| 5 | 1.900 | -7.7 | < 2.4 |
| 6 | 2.100 | -1.9 | < 9.2 |
| 7 | 2.600 | -2.2 | < 7.9 |
| 8 | 5.000 | -4.0 | < 4.4 |
| 9 | 5.800 | -9.2 | < 2.1 |
| 10 | 6.000 | -13.8 | < 1.5 |
| Nominal Impedance: | | 50 Ω | |
| Polarization: | | Linear | |
| Gain: | | 2 dBi | |

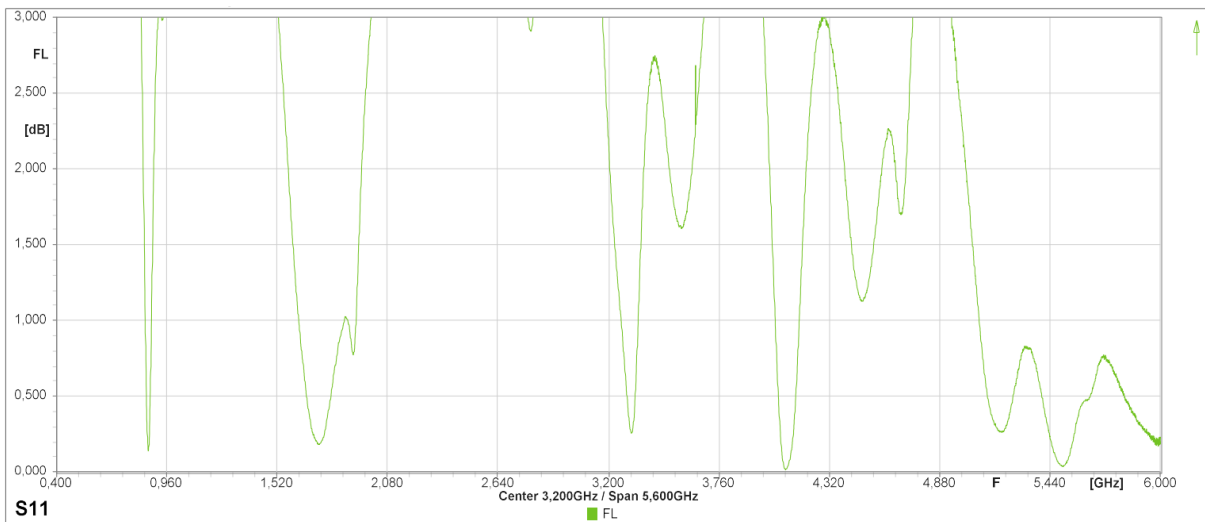
| Mechanical Properties | Description |
|-----------------------|------------------|
| Antenna | Internal Antenna |
| Connector | U.FL |
| Dimensions | 47*7.6*1.2 mm |
| Cable length | 10 cm ± 0.5 |
| Mounting | Adhesive |
| Connector | U.fl |
| Operating Temperature | -40°C~+85°C |
| Storage Temperature | -40°C~+85°C |

Antenna Properties

Return Loss



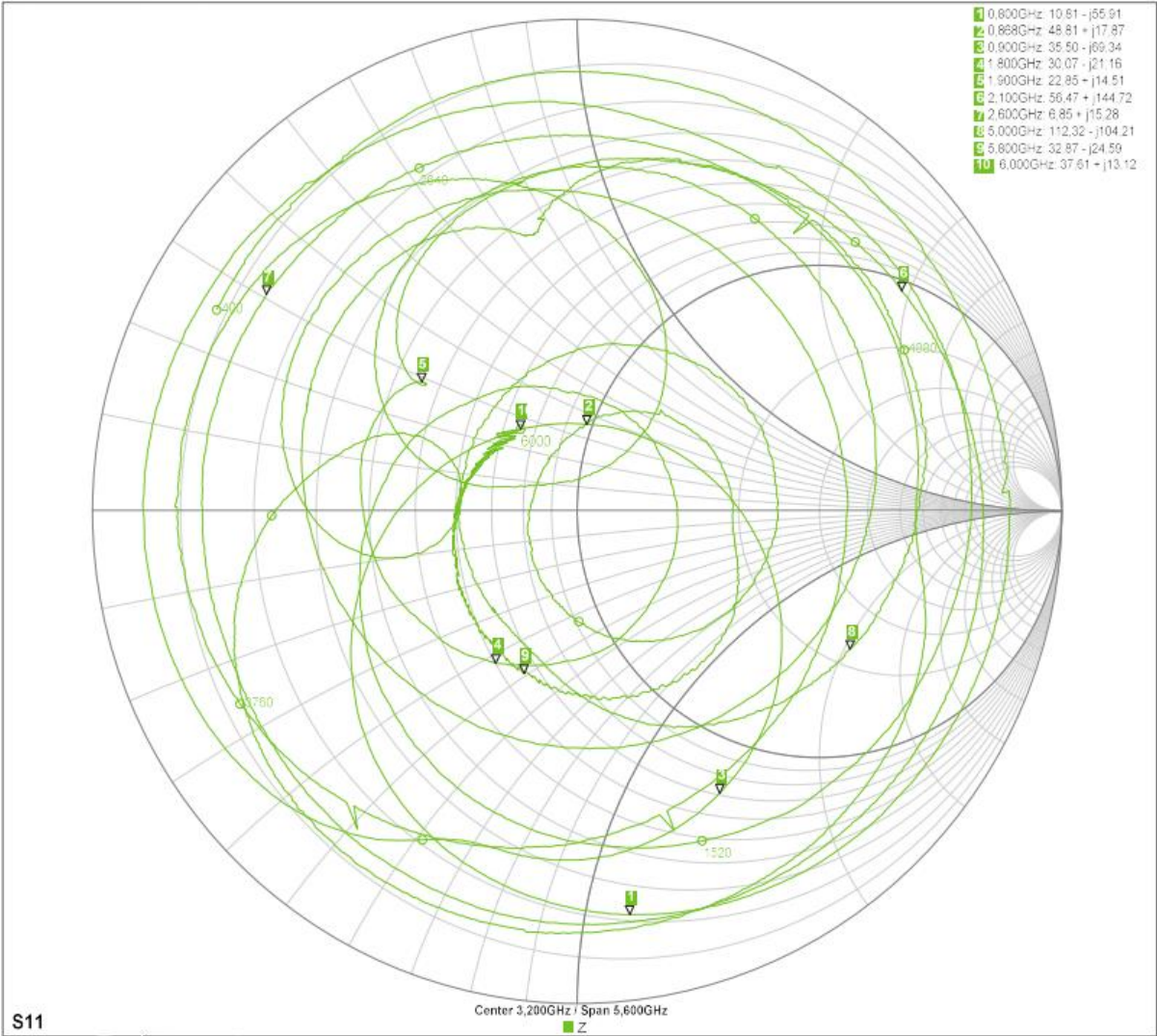
Forward Loss



Antenna, PCB

ERF4045

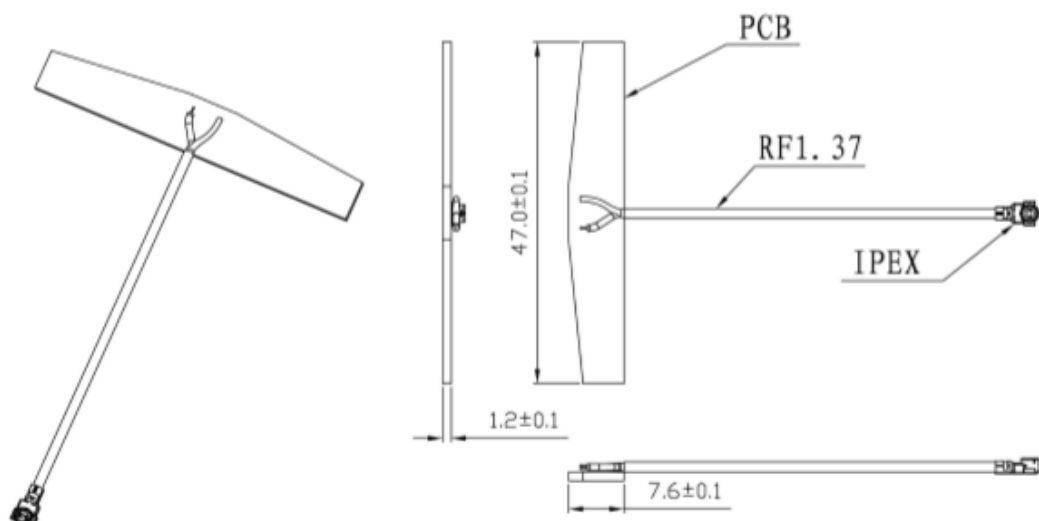
Impedance



Antenna, PCB

ERF4045

Dimensions



Unit: mm

Connector

The ERF4045 antenna uses a U.FL 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 |