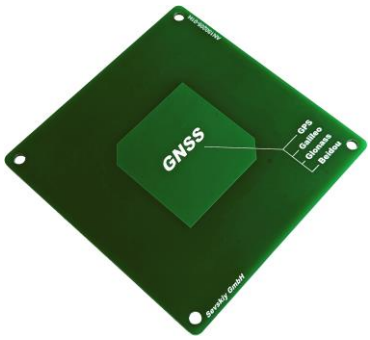
## 1164 MHz / 1300 MHz PCB Antenna (GNSS Upper L-band)




| General information |
|---|
| This small antenna is intended to be used within a plastic housing of a mobile device, router or a gateway. On request, the antenna geometry can be optimized for customer's housing design and material properties. |

| Typical applications |
|---|
| GNSS, tracking devices, IoT |

| Electrical data | |
|---|---|
| Antenna type | External / internal PCB antenna |
| Frequency band | GNSS (Upper L-Band) GPS L1; BeiDou B1; Glonass L1 |
| Frequency range [MHz] | 1559...1610 |
| Return loss [dB] | -8 |
| Peak gain [dBi] | 1.4 |
| Radiation efficiency [%] | 32 |
| Nominal input impedance [Ohm] | 50 |
| Polarization | Circular RHCP |
| Radiation pattern | directional |
| Maximum input power [W] | 10 |

| Mechanical data | |
|---|---|
| Antenna PCB dimensions [mm] | 100 x 100 x 1.6 |
| Connector type [1)] | IPEX MHF1 / Hirose U.FL (UMCC) compatible [1)] |
| Cable type and thickness [2)] [mm] | micro coax 1.13 [2)] |
| Cable length [3)] [mm] | 200 [3)] |
| PCB material | FR4 |

| Environmental data | |
|---|---|
| Operating temperature [ºC] | -40…+85 |
| Storage temperature [ºC] | -40…+85 |
| Ambient relative humidity [%] | 0…95 |
| RoHS / REACH compliant | yes / yes |

| Additional information |
|---|
| [1)] Other connector types can be offered on request. |
| [2)] Following cable thicknesses can be used with MHF1 connector: 0.81 mm, 1.13 mm, 1.32 mm, 1.37 mm. |
| [3)] Recommended length. Cable is not included, but can be customized and provided separately. |
| Antenna performance was measured using the recommended cable length in free space. |
| Further customization, electromagnetic simulations and measurements can be offered on request. |
| The antenna can be additionally equipped with adhesive tape and mounting holes. |



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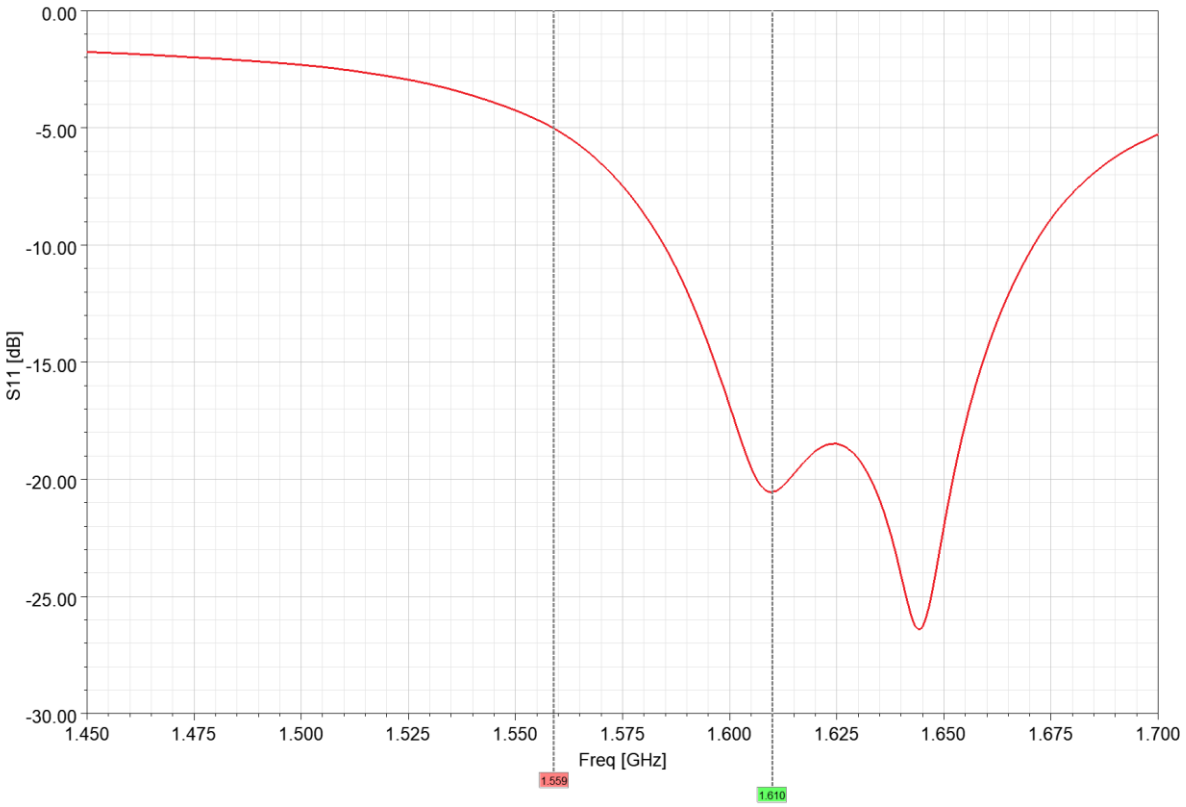
### Measured input impedance matching



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