

ELECTRICAL SPECIFICATION

ANTENNA



| PARAMETERS | VALUE | UNIT |
|---------------------------|--------------------------|------------|
| Frequency Range | GPS: L1/L2 | - |
| | GLONASS: G1/G2 | - |
| | COMPASS: B1/B2/B3 | - |
| | GALILEO: E1/L1/E2/E5b/E6 | - |
| Polarization | RHCP | - |
| Axial Ratio, max | 3 | dB |
| VSWR, max | 1.5 | - |
| Peak Gain, min | 5 | dBi |
| Impedance | 50 | Ω |
| Phase Center Error | ± 2 | mm |
| Horizontal Coverage Angle | 360 | $^{\circ}$ |

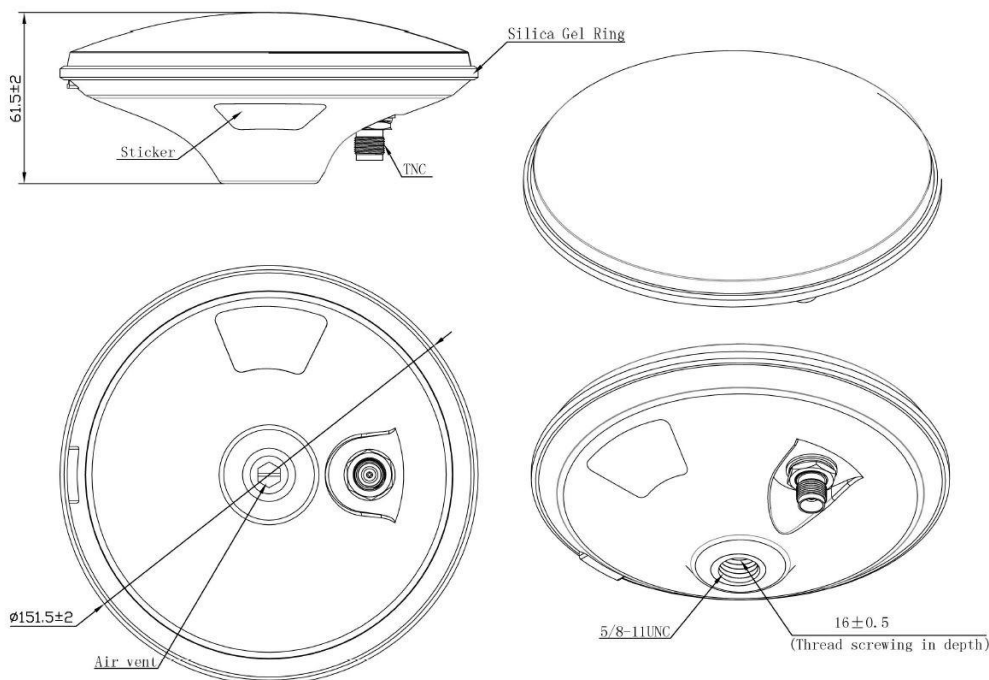
LNA

| PARAMETERS | VALUE | UNIT |
|--------------------------|------------|------|
| Gain | 40 ± 2 | dB |
| Noise Figure, max | 1.5 | dB |
| Passband Fluctuation | ± 1.5 | dB |
| Supply Voltage | 3 ~ 12 | V DC |
| Current Consumption, max | 50 | mA |
| VSWR, max | 2 | - |

MECHANICAL & ENVIRONMENTAL

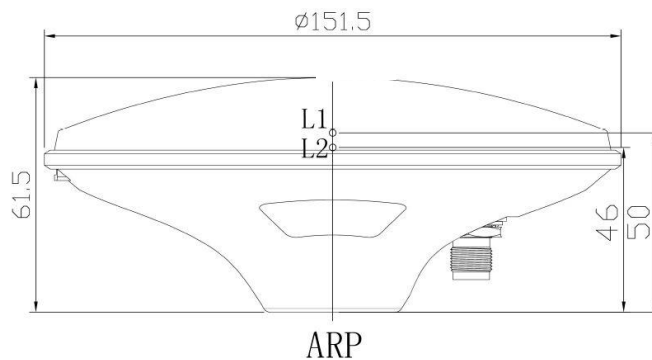
| PARAMETERS | VALUE | UNIT |
|---|----------------|--------------------|
| Connector | TNC-K | - |
| Radome Material | ABS | - |
| Operating Temperature Range | -40 ~ +85 | $^{\circ}\text{C}$ |
| Relative Humidity, max | 95 | % |
| Ingress Protection (Exclude Air Vent in Screw Hole) | IP67 | - |
| Mounting Method | Screw | - |
| Environmentally Friendly | RoHS Compliant | - |

MECHANICAL SPECIFICATION



Unit: mm

ANTENNA REFERENCE POINT & PHASE CENTER



Mechanical Offsets Units in "mm"

■ APPROVAL

| RALTRON | |
|--------------|--------------------|
| DRAWN BY: | AR, July 08, 2019 |
| APPROVED BY: | CP, July 08, 2019 |
| REVISION: | A, Initial Release |



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