# DATA SHEET

## SENCITY® Road VHF Antenna
K5022221-R

### Properties

- Broadband vehicle VHF antenna for bus and tram
- Frequency range from 152 MHz to 178 MHz
- Contains a heavy duty fibreglass radome
- Fire retardant according to EN 45545-2
- Gain dB 0 (ref. to the quarter-wave antenna)
- Rugged design, meets EN 50155 railway standard.

RoHS COMPLIANT · REACH COMPLIANT · WEEE compliant · CE · UKCA

| Electrical bands | |
| --- | --- |
| | **Band 1** |
| Name | 2M Band |
| Frequency | 152 MHz ... 178 MHz |
| VSWR | 2 |
| Impedance | 50 Ω |
| Ambient Temperature | 50 °C |
| Composite Power max | 100 W |

| Electrical remarks | |
| --- | --- |
| Remarks | Requires mounting on a conductive surface 1.0 x 2.0 m minimum with 3 studs M10 and counterflange. Recommended torque: 14 Nm. Preferred frequency range 156-174 MHz with VSWR <<2. Note: No superstructures in this area. |

| Ports | |
| --- | --- |
| | **Port 1** |
| Port name | 2M Band |
| Connector | N, jack (female) |
| Polarization | vertical |
| DC grounded | Yes |

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| Connections | |
|---|---|
| Port number | Port 1 |
| Band 1 | ✅ |

| Mechanical data | |
|---|---|
| Weight | 1.2 kg |
| Dimensions | 225 mm x 252 mm x 126 mm (Heigth x Width x Depth) |
| Remarks | Packaging size (outside): 260 x 260 x 130 mm<br>Radiator and Base: Aluminum.<br>Studs and all screws and nuts: Stainless steel.<br>Sealing: Neoprene and polyurethane. Note: Don't use detergents that might harm the sealing.<br>DC grounded to protect against lightning. |

| Interface and material data | |
|---|---|
| Radome material | Fiberglass |
| Radome colour | Grey |
| Back plate/base plate material | Aluminum |
| Back plate/base plate colour | Black |

| Environmental data | |
|---|---|
| Operation temperature | -40 °C ... 85 °C |
| Storage temperature | -55 °C ... 85 °C |
| Environment (application) | Outdoor |
| Ingress protection (IP Rating) | Mated / IP66 |
| Flammability rating | EN 45545-2 |

| Environmental remarks | |
|---|---|
| Environmental tests: ISO 50155 | |

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### Outline drawing



| Type: K5022221-R | | | All dimensions after treatment in milimeter (mm) | |
|---|---|---|---|---|
| Assembly drawing | Released date: 14.10.2021 | alternative ID | 3D-ID PRO-00485513 B | Sheet: 1/1 |
| **HUBER+SUHNER** | description Antenna | | ID DOU-00485513 | Release B |
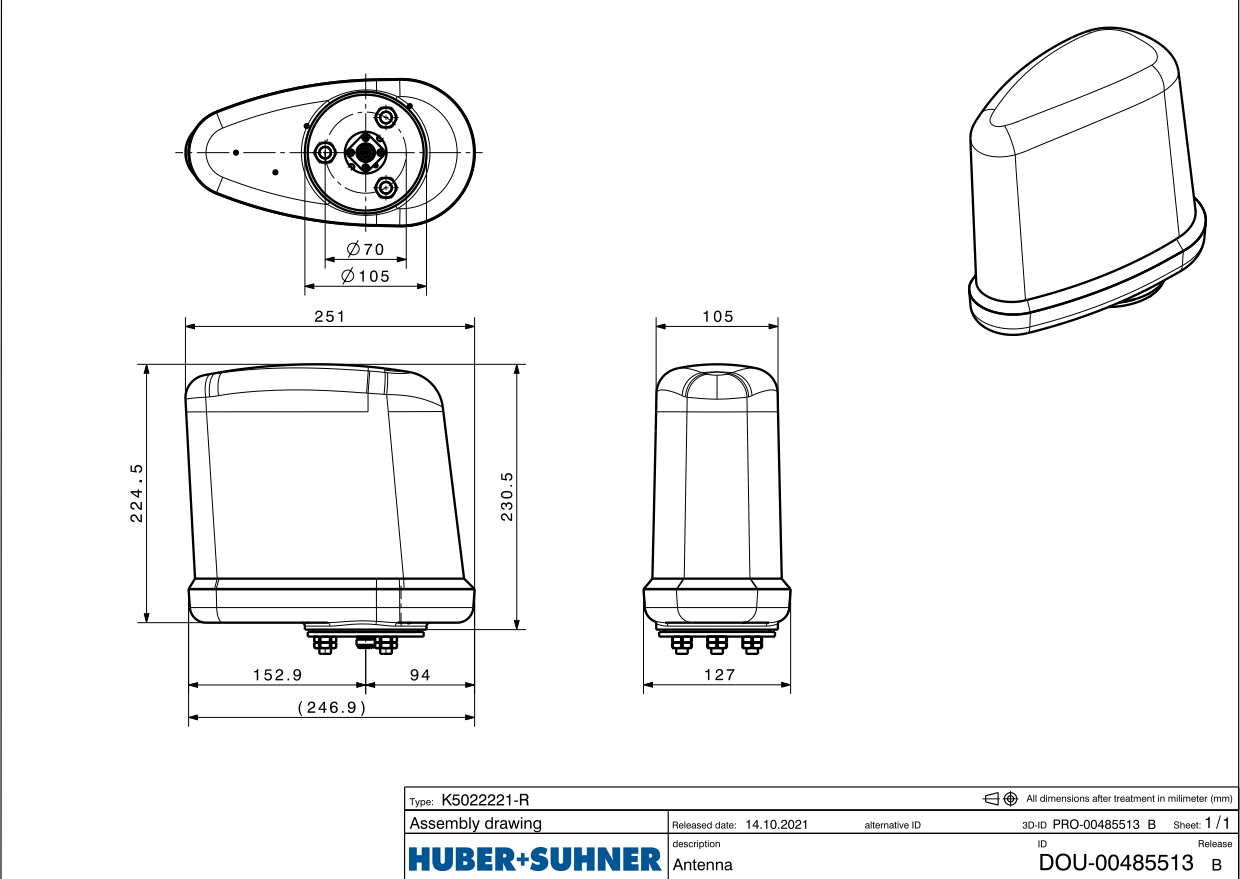
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