

Sencity Rail Antenna K702021

Description

Railway rooftop antenna for 410-470 MHz.
Rugged design, meets EN 50155 railway standard.
Fire retardant acc. to EN 45545-2.
Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

| | Band 1 |
|--------------------------|-----------|
| Frequency (MHz) | 410 - 470 |
| VSWR | 1.5 |
| Impedance (Ohm) | 50 |
| Gain (dBi) | 4 |
| Ambient temperature (°C) | 25 |

Ports

| | Port 1 |
|--------------|------------------|
| Port name | Tetra |
| Connector | N, jack (female) |
| Polarization | vertical |
| DC grounded | Yes |

Connections

| | Band 1 |
|--------|--------|
| Port 1 | X |

General Data

Indicated VSWR values are valid for a metallic ground plane of 0.5M x 0.5M or larger.
Indicated Gain dBi values are valid for a metallic ground plane of 1.0M x 1.0M or larger.
Gain dBd 0 (ref. to the quarter-wave antenna) on a conductive surface with a minimum size of 0.5 x 0.5M or larger.

Mechanical Data

Dimensions (mm) 142 x 145 x 80 (Height x Width x Depth)
Weight (kg) 0.5

Radiator and Flange: Aluminum.
Radome: Fiberglass, colour: Light grey.
All screws and nuts: Stainless steel.
Sealing: Neoprene and rubber.

This antenna, tested by an independent institute, is DC grounded to protect against lightning and short circuit by high voltage lines.

Packaging size (outside): 151 x 87 x 210 mm

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Environmental Data

| | |
|--|---------------------------|
| Environmental conditions | outdoor |
| Operation temperature (°C) | -55 to 85 |
| Storage temperature (°C) | -55 to 85 |
| IP rating | IP66 |
| Flammability rating | EN 45545-2 |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant |
| Lead-free soldered | yes |
| WEEE 2012/19/EU | no special marking needed |
| REACH 1907/2006/EC | compliant |

Environmental tests: EN 50155:2007

Flammability rating: EN 45545

Material Data

| | |
|--------------------------------|-----------|
| Radome colour | grey |
| Back plate/base plate colour | black |
| Back plate/base plate material | Aluminium |

Related Documents

| | |
|----------------------|----------------|
| Mounting instruction | DOC-0000862954 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing | DOU-00392614 |
| 3D-model | DOC-0000862976 |