Data Sheet

HUBER+SUHNER

Sencity Rail Antenna
741557

Description

Railway rooftop multi-band antenna for 380-400 MHz and 790-960 MHz.

The antenna can be operated in all frequency ranges simultaneously.

Multiple Antenna installations support Cellular MIMO.

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	Band 2
Frequency (MHz)	380 - 400	790 - 960
VSWR	1.6	1.5
Impedance (Ohm)	50	50
Gain (dBi)	3.5	4
Ambient temperature (°C)	25	25

Ports

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

Connections

	Band 1	Band 2
Port 1	X	X

General Data

Indicated VSWR values are valid for a metallic ground plane of 0.5M x 0.5M or larger.

Mechanical Data

Dimensions (mm)	142 x 145 x 80 (Heigth 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 with high voltage lines.

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

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85

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Storage temperature (°C)	-40 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 45545-2

Material Data

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

Related Products

2501.17.0091 Diplexer 80 - 520 / 694 - 2700 MHz can be used to operate both frequencies simultaneously.

Related Documents

Mounting instruction	DOC-0000862954
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00394142
3D-model	DOC-0000862976

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