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DATA SHEET

SENCITY® Road VHF Antenna

K5022211-R

Properties

- Broadband vehicle VHF antenna for bus and tram
- Frequency range from 143 MHz to 162 MHz
- Contains a heavy-duty fiberglass radome
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant according to EN 45545-2
- Gain dB 0 (ref. to the quarter-wave antenna)



Electrical data	
	Band 1
Name	FM
Frequency	143 MHz ... 162 MHz
Impedance	50 Ω
VSWR	2
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 146-156 MHz with VSWR <<2. Note: No superstructures in this area.

Ports	
	Port 1
Port name	FM
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

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Connections	
	Port 1
Port name	FM
Band 1	✓

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

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

Ordering information	
Item number	Item description
85164939	K5022211-R

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