

SENCITY® SC LogPer, Vertical Polarization, 690–2690 MHz

853203V02

Properties

- Vertical polarized logarithmic periodic antenna
- Frequency range from 690 to 2690 MHz
- Gain of 11 dBi and Half power beamwidth of 54° (horizontal) and 69° (vertical)
- 7/16 connector interface



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Frequency	690 MHz ... 880 MHz	880 MHz ... 960 MHz	960 MHz ... 1695 MHz	1695 MHz ... 2200 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.6	1.5	1.5	1.5
Gain	10.1 dBi	10.6 dBi	11 dBi	11 dBi
HPBW vertical	69 °	64 °	57 °	53 °
HPBW horizontal	54 °	53 °	50 °	48 °
Front to back ratio	25 dB	25 dB	25 dB	25 dB
Ambient Temperature	50 °C	50 °C	50 °C	50 °C
Composite Power max	300 W	300 W	250 W	200 W

	Band 5	Band 6
Frequency	2200 MHz ... 2490 MHz	2490 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω
VSWR	1.5	1.5
Gain	11 dBi	11 dBi
HPBW vertical	47 °	45 °
HPBW horizontal	46 °	44 °
Front to back ratio	22 dB	25 dB
Ambient Temperature	50 °C	50 °C
Composite Power max	170 W	150 W

Electrical remarks	
IMD level	-150 dBc at carrier power 2x 43 dBm
Remarks	Composite Power: 500W Grounding: All metal parts of the antenna including the mounting kit and the inner conductor are DC grounded.

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Ports	
	Port 1
Connector	7/16, jack (female)
Polarization	vertical
DC grounded	Yes

Connections	
	Port 1
Band 1	✓
Band 2	✓
Band 3	✓
Band 4	✓
Band 5	✓
Band 6	✓

Mechanical data	
Weight	5.5 kg
Dimensions	300 mm x 155 mm x 758 mm (Height x Width x Depth)
Mast diameter	30 mm ... 70 mm
Windload	front: 20 N at 150 km/h, lateral: 210 N at 150 km/h, Wind Speed survival: 240 km/h
Remarks	Packing size (mm): 360x175x1000 Connector position: Bottom All screws and nuts: Stainless steel Mounting: The antenna can be mounted on tubular mast with supplied clamps. Recommended Torque: 25 Nm. Please note: Huber+Suhner does not recommend using counter nuts.
	Pressure Test: The antenna has passed a pressure test according to Official Journal of the European Communities L245/171 from 12.09.2002 for the use of the antenna in train tunnels for high-speed railways. During test the antenna was subject to alternating pressure with a number of 1×10^6 alternations of load. The antenna exceeds the standard as follows: Pressure difference according to L245/171: 10 kPa Pressure difference during test: 20 kPa

Material data	
Radome material	Glass Reinforced Plastic (GRP)
Radome colour	Grey
Back plate/base plate material	Aluminum

Environmental data	
Environment (application)	Outdoor

Ordering information	
Item number	Item description
84480006	853203V02

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