

# 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 bands    |                     |                     |                      |                       |
|---------------------|---------------------|---------------------|----------------------|-----------------------|
|                     | 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 |
| VSWR                | 1.6                 | 1.5                 | 1.5                  | 1.5                   |
| Impedance           | 50 Ω                | 50 Ω                | 50 Ω                 | 50 Ω                  |
| 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 |
| VSWR                | 1.5                   | 1.5                   |
| Impedance           | 50 Ω                  | 50 Ω                  |
| 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<br>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 number | 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)   |
| Windload        | front: 20 N at 150 km/h, lateral: 210 at 150 km/h, Wind Speed survival: 240 km/h  |
| Remarks         | Packing size (mm): 360x175x1000<br>Connector position: Bottom<br>All screws and nuts: Stainless steel<br>Mounting: The antenna can be mounted on tubular mast with supplied clamps. Recommended Torque: 25 Nm.<br>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.<br>During test the antenna was subject to alternating pressure with a number of 1x10 <sup>6</sup> alternations of load.<br>The antenna exceeds the standard as follows:<br>Pressure difference according to L245/171: 10 kPa<br>Pressure difference during test: 20 kPa |

| Interface and material data    |                                |
|--------------------------------|--------------------------------|
| Radome material                | Glass Reinforced Plastic (GRP) |
| Radome colour                  | Grey                           |
| Back plate/base plate material | Aluminum                       |

| Environmental data        |         |
|---------------------------|---------|
| Environment (application) | Outdoor |

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