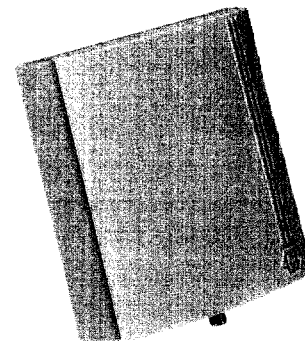


# Micro/Picocell PCS 1900 Planar Antennas (1850 – 1990 MHz) For Indoor/Outdoor Applications SPA 1900/XX/X/O/X



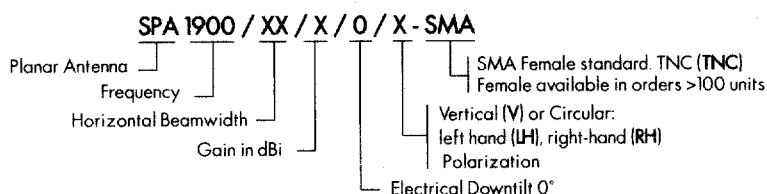
| Electrical properties       | SPA 1900/80/8/0/V | SPA 1900/70/8/0/LH | SPA 1900/70/8/0/RH |
|-----------------------------|-------------------|--------------------|--------------------|
| Frequency range             | 1850 - 1990 MHz   | 1850 - 1990 MHz    | 1850 - 1990 MHz    |
| Impedance                   | 50 $\Omega$       | 50 $\Omega$        | 50 $\Omega$        |
| VSWR                        | 1.5:1             | 1.5:1              | 1.5:1              |
| Polarization                | linear, vertical  | circular (left)    | circular (right)   |
| Gain                        | 7.5 dBi           | 7.8 dBi            | 7.8 dBi            |
| 3 dB beamwidth horizontal   | 80°               | 70°                | 70°                |
| 3 dB beamwidth vertical     | 50°               | 70°                | 70°                |
| Front-to-back ratio         | 15 dB             | 20 dB              | 20 dB              |
| Axial ratio                 | —                 | 3 dB               | 3 dB               |
| Permitted power on entrance | 75 W (CW) at 25°C | 75 W (CW) at 25°C  | 75 W (CW) at 25°C  |

## Mechanical properties

|                                         |                                        |                                        |                                        |
|-----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Antenna dimensions                      | 4" x 3.7" x 1.3"<br>(101 x 95 x 32 mm) | 4" x 3.7" x 1.3"<br>(101 x 95 x 32 mm) | 4" x 3.7" x 1.3"<br>(101 x 95 x 32 mm) |
| Weight                                  | 3.5 oz. (100 g)                        | 4 oz. (114 g)                          | 4 oz. (114 g)                          |
| Radome material                         | ASA Plastic                            | ASA Plastic                            | ASA Plastic                            |
| Standard radome color*                  | RAL 7035 (grey)                        | RAL 7035 (grey)                        | RAL 7035 (grey)                        |
| Standard housing/bracket color          | RAL 7042 (dark grey)                   | RAL 7042 (dark grey)                   | RAL 7042 (dark grey)                   |
| Operating temperature range             | - 40°C to + 80°C                       | - 40°C to + 80°C                       | - 40°C to + 80°C                       |
| Storage temperature range               | - 40°C to + 80°C                       | - 40°C to + 80°C                       | - 40°C to + 80°C                       |
| Windload (frontal)                      | 24 N @ 125 mph                         | 24 N @ 125 mph                         | 24 N @ 125 mph                         |
| Wind survivability (wind tunnel tested) | 125 mph                                | 125 mph                                | 125 mph                                |

\*Antennas may be painted with Imron 5000 or equivalent 2-part enamel on a polyurethane-acrylic base. Do not use metallic-based paints.

## Model number legend



## Mounting

Standard Wall Mount and Pole Mount hardware supplied.  
Other mounting options available.

**Huber+Suhner Wireless Division**

USA 802-878-0555 • Fax 802-878-9880

www.hubersuhnerinc.com

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Canada 613-596-6646 • Fax 613-596-3001