

# SACPC 24x5510

1710 -2250 MHz (24x) CP log-periodic antenna

## Features

- ❑ **Transmit Diversity Gain**
- ❑ **Dramatic reduction in sector to sector interference**
- ❑ **Outstanding performance over the entire band (1710 - 2250 MHz)**
- ❑ **Excellent Axial Ratio**
- ❑ **Allows for 2 ea. independent 4 branch receive diversity paths for ea. sector**
- ❑ **Low intermodulation**
- ❑ **Improved Side-to-side rejection**
- ❑ **Fading reduction**
- ❑ **Excellent isolation between ports**



## Electrical specifications

|                                    |                           |
|------------------------------------|---------------------------|
| Frequency range:                   | <b>1710-2250 MHz</b>      |
| Impedance:                         | <b>50 ohm</b>             |
| Connector type:                    | <b>7/16 Din or 4.3-10</b> |
| Return loss:                       | <b>18 dB</b>              |
| Polarization:                      | <b>Circular</b>           |
| Gain ea. port [Circular]:          | <b>24x12 dBi</b>          |
| Axial Ratio:                       | <b>2 dB</b>               |
| Isolation between ports (TX band): | <b>28 dB</b>              |
| Front-to-back ratio:               | <b>30 dB</b>              |
| Intermodulation (2x20W):           | <b>IM3 153 dB</b>         |
|                                    | <b>IM5 160 dB</b>         |
|                                    | <b>IM7/9 170 dB</b>       |
| Power rating:                      | <b>24x 150 W</b>          |
| H-plane (-3 dB point):             | <b>24x 55°</b>            |
| V-plane (-3 dB point):             | <b>24x 35°</b>            |
| Lightning protection:              | <b>DC grounded</b>        |

## Mechanical specifications

|  |                     |                    |
|--|---------------------|--------------------|
| Overall height:                                      | <b>48 in</b>        | <b>[1220 mm]</b>   |
| Diameter:  | <b>14 in</b>        | <b>[355 mm]</b>    |
| Weight (excluding brackets):                         | <b>32 lbs</b>       | <b>[14.4 Kg]</b>   |
| Wind load measured up to:                            | <b>150 mph</b>      | <b>[240 Km/h]</b>  |
| Wind area (front of antenna):                        | <b>4.66 sq. ft.</b> | <b>[0.43 sq.m]</b> |
| Lateral thrust at 113 mph/<br>180 Km/h (worst case): | <b>238 lbs</b>      | <b>[1060 N]</b>    |

## Materials

|                                  |                            |
|----------------------------------|----------------------------|
| Radiating Elements:              | <b>Silver plated brass</b> |
| Transformer (Power distribution) | <b>Ceramic PCB</b>         |
| Chassis:                         | <b>Aluminum</b>            |
| Radome:                          | <b>PVC / TPO</b>           |
| Mounting:                        |                            |

*The SACPC 24x5510 is made in the U.S.A.*