

# SACP 12x5512

1710 -2180 MHz (24x) CP log-periodic antenna

## Features

- ❑ **Transmit Diversity Gain**
- ❑ **Dramatic reduction in sector to sector interference**
- ❑ **Outstanding performance over the entire band (1710 - 2180 MHz)**
- ❑ **Excellent Axial Ratio**
- ❑ **Allows for 1 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>1710-2180 MHz</b>
Impedance:	<b>50 ohm</b>
Connector type:	<b>7/16 Din</b>
Return loss:	<b>18 dB</b>
Polarization:	<b>Circular</b>
Gain ea. port [Circular]:	<b>12x12 dBdC</b>
Gain ea. port [Linear]:	<b>12x9 dBdL</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>12x 150 W</b>
H-plane (-3 dB point):	<b>12x 55°</b>
V-plane (-3 dB point):	<b>12x 17°</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/ 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 SACP 12x5512 is made in the U.S.A.*