

# SPX 5014

1850 - 1990 MHz Cross pol. log-periodic antenna

## Features

- ❑ Small size
- ❑ Improved Side-to-side rejection
- ❑ Suitable for TDMA/CDMA/GSM/3G
- ❑ High return loss
- ❑ Low intermodulation
- ❑ High front-to-back ratio
- ❑ Dramatically improved signal to interference performance
- ❑ Upper side-lobe suppression
- ❑ Rugged design
- ❑ Outstanding performance over the entire band (1850 - 1990 MHz)



## Electrical specifications

Frequency range:	<b>1850 - 1990 MHz</b>	
Impedance:	<b>50 ohm</b>	
Connector type:	<b>7/16 Din</b>	
Return loss:	<b>20 dB</b>	
Polarization:	<b>+/- 45°</b>	
Isolation between antennas:	<b>40 - 60 dB</b>	
Gain:	<u>+45 degree</u> <b>14 dBd</b>	<u>-45 degree</u> <b>14 dBd</b>
Front-to-back ratio:	<b>&gt; 30 dB</b>	<b>&gt; 30 dB</b>
Power rating:	<b>300 W</b>	
H-plane (-3 dB point):	<b>46 - 48°</b>	<b>46 - 48°</b>
V-plane (-3 dB point):	<b>17°</b>	<b>17°</b>
Upper side-lobe suppression:	<b>18 dB</b>	<b>18 dB</b>
Intermodulation (2x20W):	<b>IM5 160 dB</b>	<b>IM7/9 170 dB</b>
Lightning protection:	<b>DC grounded</b>	

## Mechanical specifications

Overall height:	<b>46 in</b>	<b>[1168 mm]</b>
Width:	<b>7.25 in</b>	<b>[184 mm]</b>
Depth:	<b>5.13 in</b>	<b>[130 mm]</b>
Weight (excluding brackets):	<b>11 lbs</b>	<b>[5 Kg]</b>
Wind load measured up to:	<b>150 mph</b>	<b>[240 Km/h]</b>
Wind area (side of antenna):	<b>2.31 sq. ft.</b>	<b>[0.22 sq.m]</b>
Lateral thrust At 113 mph/ 180Km/h (worst case):	<b>118 lbs</b>	<b>[526 N]</b>

## Materials

Radiating Elements:	<b>Silver plated brass</b>
Transformer (Power distribution)	<b>Ceramic PCB</b>
Chassis:	<b>Aluminum</b>
Radome:	<b>Grey Fiberglass/PVC</b>
Mounting bolts:	<b>Stainless steel</b>

*The SPX 5014 is made in the U.S.A.*