

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

Mechanical specifications

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

Materials

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

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