

# SP-E 5017

1850 - 1990 MHz . 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>Vertical</b>
Gain:	<b>17 dBd</b>
Front-to-back ratio:	<b>&gt; 30 dB</b>
Upper side-lobe suppression:	<b>18 dB</b>
Intermodulation (2x20W):	<b>IIM5 160 dB</b> <b>IM7/9 170 dB</b>
Power rating:	<b>300 W</b>
H-plane (-3 dB point):	<b>52 - 54°</b>
V-plane (-3 dB point):	<b>8 - 9°</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>[527 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 SP-E 5017 is made in the U.S.A.*