

SP-E 8515

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:	1850-1990 MHz
Impedance:	50 ohm
Connector type:	7/16 Din
Return loss:	20 dB
Polarization:	Vertical
Gain:	15 dBd
Front-to-back ratio:	> 30 dB
Upper side-lobe suppression:	18 dB
Intermodulation (2x20W):	IM5 160 dB IM7/9 170 dB
Power rating:	300 W
H-plane (-3 dB point):	79 - 80°
V-plane (-3 dB point):	8 - 9°
Lightning protection:	DC grounded

Mechanical specifications

Overall height:	42 in	[1067 mm]
Width:	4.75 in	[121 mm]
Depth:	5.25 in	[133 mm]
Weight (excluding brackets):	6 lbs	[2.72 Kg]
Wind load measured up to:	150 mph	[240 Km/h]
Wind area (side of antenna):	1.53 sq. ft.	[0.14 sq.m]
Lateral thrust At 113 mph/ 180Km/h (worst case):	78 lbs	[348 N]

Materials

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

The SP-E 8515 is made in the U.S.A.