

SC 100 13

800 - 960 MHz log-periodic antenna

Features

- ❑ Small size
- ❑ Aesthetically pleasing
- ❑ Suitable for TDMA/CDMA/GSM/3G
- ❑ High return loss
- ❑ Low intermodulation
- ❑ High front-to-back ratio
- ❑ Outstanding performance over the entire band (800 - 960 MHz)
- ❑ Upper side-lobe suppression
- ❑ Rugged design
- ❑ Dramatically improved signal to interference performance



Electrical specifications

Frequency range:	800-960 MHz
Impedance:	50 ohm
Connector type:	7/16 Din
Return loss:	20 dB
Polarization:	Vertical
Gain:	13 dBd
Front-to-back ratio:	30 dB
Upper side-lobe suppression:	18 dB
Intermodulation (2x20W):	IM5 160 dB IM7/9 170 dB
Power rating:	500 W
H-plane (-3 dB point):	99 - 101°
V-plane (-3 dB point):	9 - 10°
Lightning protection:	DC grounded

Mechanical specifications

Overall height:	86 in	[2184 mm]
Width:	6.5 in	[165 mm]
Depth:	8 in	[203 mm]
Weight (excluding brackets):	20 lbs	[9.1 Kg]
Wind load measured up to:	150 mph	[240 Km/h]
Wind area (side of antenna):	4.7 sq. ft.	[0.44 sq.m]
Lateral thrust At 113 mph/ 180Km/h (worst case):	244 lbs	[1086 N]

Materials

Radiating Elements:	Aluminum
Transformer (Power distribution)	Ceramic PCB
Chassis:	Aluminum
Radome:	Grey Fiberglass/PVC
Tilt-bracket:	Hot dip galvanized steel
Mounting bolts:	Stainless steel

The SC 100 13 is made in the U.S.A.