

# SCW 9012

698 - 900 MHz Ultra wide band log-periodic antenna

## Features

- ❑ Small size
- ❑ Improved Side-to-side rejection
- ❑ Suitable for CDMA/GSM/3G/4G
- ❑ High return loss
- ❑ Low intermodulation
- ❑ High front-to-back ratio
- ❑ Outstanding performance over the entire band (698 - 900 MHz)
- ❑ Upper side-lobe suppression
- ❑ Rugged design
- ❑ Dramatically improved signal to interference performance



## Electrical specifications

Frequency range:	<b>698-900 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>12 dBd</b>
Front-to-back ratio:	<b>&gt; 30 dB</b>
Upper side-lobe suppression:	<b>18 dB</b>
Intermodulation (2x20W):	<b>IM3 150 dB</b>
	<b>IM5 160 dB</b>
	<b>IM7/9 170 dB</b>
Power rating:	<b>500 W</b>
H-plane (-3 dB point):	<b>85 - 93°</b>
V-plane (-3 dB point):	<b>17 - 19°</b>
Lightning protection:	<b>DC grounded</b>

## Mechanical specifications

Overall height:	<b>48 in</b>	<b>[1219 mm]</b>
Width:	<b>7 in</b>	<b>[178 mm]</b>
Depth:	<b>11.5 in</b>	<b>[292 mm]</b>
Weight (excluding brackets):	<b>13 lbs</b>	<b>[ 5.90 Kg]</b>
Wind load measured up to:	<b>150 mph</b>	<b>[240 Km/h]</b>
Wind area (side of antenna):	<b>3.83 sq. ft.</b>	<b>[0.36 sq.m]</b>
Lateral thrust At 113 mph/ 180Km/h (worst case):	<b>196 lbs</b>	<b>[871 N]</b>

## Materials

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

*The SCW 9012 made in the U.S.A.*