

LSCPW 9012 / 8515

Dual band 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
- ❑ Dramatically improved signal to interference performance
- ❑ Upper side-lobe suppression
- ❑ Rugged design
- ❑ Outstanding performance over both bands (698 - 900 & 1710 - 2170 MHz)



Electrical specifications

Frequency range:	698 - 900 / 1710 - 2170 MHz	
Impedance:	50 ohm	
Connector type:	7/16 Din	
Return loss:	20 dB	
Polarization:	2x Vertical	
Isolation between antennas:	40-60 dB	
	<u>698 - 900 MHz</u>	<u>1710 - 2170 MHz</u>
Gain:	12 dBd	15 dBd
Front-to-back ratio:	> 30 dB	> 30 dB
Power rating:	500 W	300 W
H-plane (-3 dB point):	85 - 93°	84 - 90°
V-plane (-3 dB point):	17 - 19°	8 - 9°
Upper side-lobe suppression:	18 dB	18 dB
Intermodulation (2x20W):	IM3 150 dB	
	IM5 160 dB	
	IM7/9 170 dB	
Lightning protection:	DC grounded	

Mechanical specifications

Overall height:	92 in	[2337 mm]
Width:	7 in	[178 mm]
Depth:	11.5 in	[292 mm]
Weight (excluding brackets):	26 lbs	[11.83 Kg]
Wind load measured up to:	150 mph	[240 Km/h]
Wind area (side of antenna):	7.35 sq. ft.	[0.68 sq.m]
Lateral thrust At 113 mph/ 180Km/h (worst case):	375 lbs	[1669 N]

Materials

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

The LSCPW 9012 / 8515 is made in the U.S.A.