

SAO 1 rev2

1710 -2180 MHz CP Omni antenna

Features

- ❑ Transmit Diversity Gain
- ❑ Can be configured to combine space & polarization diversity
- ❑ Outstanding performance over the entire band (1710 - 2180 MHz)
- ❑ Ideal for in & outdoor applications
- ❑ Low intermodulation
- ❑ “Full size” Din connector
- ❑ Fading reduction
- ❑ Modular (2x 3x 4x nx ..)



Electrical specifications

Frequency range:	1710-2180 MHz
Impedance:	50 ohm
Connector type:	7/16 Din or 4.3-10
Return loss:	20 dB
Polarization:	Circular
Gain ea. port [Circular]:	3 dBi

Intermodulation (2x20W):	IM3	153 dB
	IM5	160 dB
	IM7/9	170 dB

Power rating:	125 W
H-plane:	360°
V-plane (-3 dB point):	30°
Lightning protection:	DC grounded

Mechanical specifications

Overall height:	12 in	[305 mm]
Diameter:	2.5 in	[63.5 mm]
Weight (excluding brackets):	1 lbs	[0.45 Kg]
Wind load measured up to:	150 mph	[240 Km/h]
Wind area (front of antenna):	0.21 sq. ft.	[0.02 sq.m]
Lateral thrust at 113 mph/ 180 Km/h (worst case):	10.6 lbs	[47.5 N]

Materials

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

The SAO 1 rev2 is made in the U.S.A.