

VHF Corner Reflector Antennas

136-174MHz

CR2



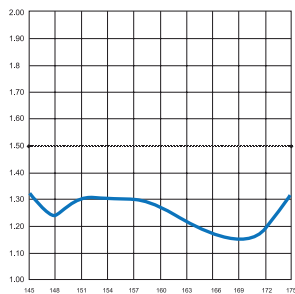
The CR2 antenna is a single element 90° corner reflectors, delivering high gain and high front to back ratios for critical long path or high interference applications. The CR2 is constructed with an aluminium grid-style back screen with close element spacing to maximise pattern control characteristics. The all welded screen is of alodined aluminium finish for corrosion protection and the single folded dipole element is mounted using all stainless steel fittings.



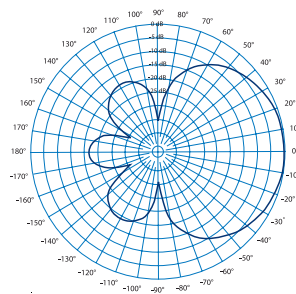
Features:

- Extremely high front to back ratios and minimal side lobe characteristics
- Shipped unassembled for ease of handling, easily assembled on site
- Direct DC grounded for lightning protecting and reduction of precipitation static noise
- Comes in 2 tuned full frequency band options - 136-162MHz or 148-174MHz (Specify on order)

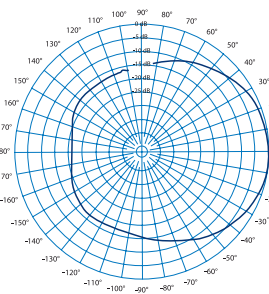
Typical VSWR Response (CR2)



Typical E Plane



Typical H Plane



Electrical Specifications

Model Number	CR2
Nominal Gain <i>dBi</i>	9 (7)
Frequency <i>MHz</i>	136-162 or 148-174*
Tuned Bandwidth <i>MHz</i>	Full band
VSWR (Return Loss)	< 1.5:1 (14dB)
Nominal Impedance Ω	50
Vertical Beamwidth $^\circ$	69
Horizontal Beamwidth $^\circ$	62
Front / Back Ratio <i>dB</i>	22
Power <i>W</i>	750

Mechanical Specifications

Model Number	CR2
Construction	Welded aluminium grid with alodined finish and stainless steel fittings
Dimensions <i>m</i>	1.2 x 1.9 x 0.6
Weight <i>kg</i>	13.0
Termination	N female with short 9142 cable tail
Mounting Area	Clamps to diam. 40-85mm, 1166mm apart
Suggested Clamps	Supplied
Projected Area – No Ice <i>cm²</i>	9170
Projected Area – With Ice <i>cm²</i>	15452
Wind Load (Thrust) @160km/h <i>N</i>	1087
Wind Gust Rating <i>km/h</i>	214
Torque @ 160km/h <i>Nm</i>	602

*The CR2 is available to cover either the 136-162MHz band or 148-174MHz band, please specify which band on order.