

UHF Corner Reflector Antennas

330-960 MHz

CR Series



The CR Series are single element 90° corner reflectors, delivering high gain and high front to back ratios for critical long path or high interference applications. The CR4 and CR8 are constructed with an aluminium grid-style back screen with close element spacing to maximise pattern control characteristics. The all welded screens are of alodined aluminium finish for corrosion protection and the single folded dipole element is mounted using all stainless steel fittings.

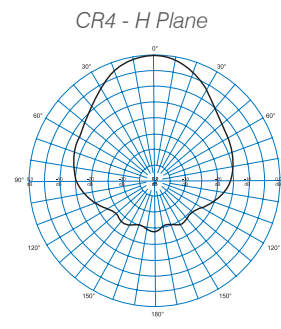
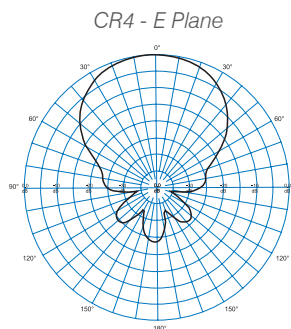
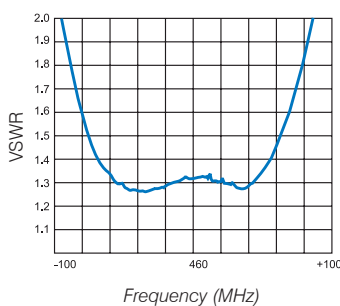
The CR8 corner reflector is similar in electrical design however it features a solid sheet back screen, constructed of all stainless steel with a dipole element enclosed in a small UPVC radome.



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 protection and reduction of precipitation static noise

Typical VSWR Response (CR4-67)



Electrical

Model Number	CR2	CR4-67	CR8
Nominal Gain dBi (dBd)	9 (7)	11 (9)	11 (9)
Frequency MHz	136 - 174	400 - 520	800 - 960
Tuned Bandwidth MHz	Entire band		60
VSWR (Return Loss)	< 1.5 :1 (14dB)		
Nominal Impedance Ω	50		
Vertical Beamwidth°	69	57	52
Horizontal Beamwidth°	57	40	45
Front / Back Ratio dB	27	23	30
Input Power W	750	500	50

Mechanical

Model Number	CR2	CR4	CR8
Construction	Welded aluminium grid with alodined finish and stainless steel fittings		Solid stainless steel screen, dipole enclosed in UPVC radome
Length m	1.3 x 1.3 x 1.2	0.9 x 0.9 x 0.6	0.4 x 0.4 x 0.4
Weight kg	13.0	6.0	5.0
Termination	N female with short 9142 cable tail		N female bulkhead
Mounting Area	Clamps to diam. 40-85mm, 1166mm apart	Clamps to diam. 40-52mm, 568mm apart	Clamps to diam. <50mm, 236mm apart
Suggested Clamps	Supplied	Supplied	Supplied
Projected Area cm ²	No ice	9170	3868
	With ice	15452	8463
Wind Load (Thrust) @ 160km/h N	1087	458	479
Wind Gust Rating km/h	214	240	178
Torque @160 km/h Nm	602	181	86