

VHF Vertical Collinear Antenna

144-175 Mhz
COL4, COL18

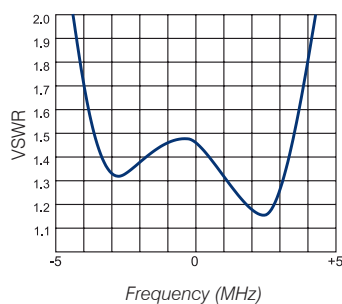


This range of “custom tuned” broadband collinear antennas all exhibit very similar radiation patterns. The antennas are suitable for single frequency or duplex applications and vary only in their construction and still suit high power applications.

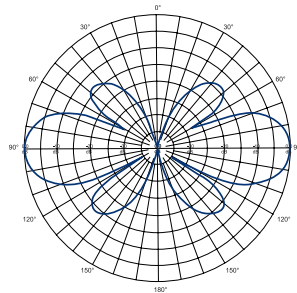
Features:

- High power capability
- Models available with black radome for extreme climate conditions
- DC grounded for lightning protection and dissipation of static noise
- Minimal tower loading

Typical VSWR Response (COL4)



COL4 - E Plane



Electrical Specifications

Model Number	COL4	COL18
Nominal Gain dBi (dBd)	6.6 (4.5)	
Frequency MHz	144-175	
Tuned Bandwidth	4.0%	
VSWR (Return Loss)	<1.5:1 (14dB)	
Nominal Impedance Ω	50	
Vertical Beamwidth°	20	
Horizontal Beamwidth°	Omni +/- 0.5dB	
Input Power W	200	

Mechanical Specifications

Model Number		COL4	COL18
Construction		Alodined aluminium elements, White fiberglass radome	Alodined aluminium elements with ruggedised Black fibreglass radome
Length <i>m</i>		4.4	4.7
Weight <i>kg</i>		4.5	6.0
Termination		N female bulkhead	
Mounting Area		500mm x 44mm diam. Alodined aluminium	750mm x 60mm diam. Alodined aluminium
Suggested Clamps		2 x UC1	
Projected Area <i>cm</i> ²	No ice	1698	2403
	With Ice	2977	3697
Wind Load (Thrust) @ 160km/h <i>N</i>		201	285
Wind Gust Rating <i>km/h</i>		>240	
Torque @160km/h <i>Nm</i>		355	468