UHF Vertical Collinear Antennas

380-530 MHz

COL8, COL12



A range of high gain omnidirectional collinear antennas, the COL8 and COL12 are electrically identical and differ only in their physical construction.

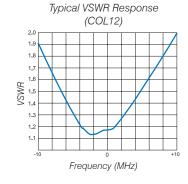
An operating bandwidth of 10 MHz is provided within VSWR limits of less than 1.5:1, making them suitable for single and multi frequency applications. The antennas include internal DC grounding for lightning protection and the reduction of static noise.

Features:

- 6dBd gain omnidirectional pattern
- Range of models to cater for varying environments
- The radiating elements are constructed of alodined aluminium with all internal metal junctions welded to prevent the generation of intermodulation products and spurious emissions
- Model with heavy duty black fiberglass radomes to aid in ice shedding
- Integrated DC grounding for lightning protection and dissipation of providing static noise



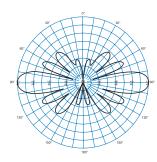
Electrical Specifications



Model Number	COL8	COL12	
Nominal Gain dBi (dBd)	8 (6)		
Frequency MHz	380 - 530		
Tuned Bandwidth MHz	10		
VSWR (Return Loss)	<1.5:1 (14dB)		
Nominal Impedance Ω	50		
Vertical Beamwidth°	14		
Horizontal Beamwidth°	Omni +/- 0.5dB		
Input Power W	200		

Mechanical Specifications

COL12 - E Plane



Model Number		COL8	COL12	
Construction		Alodined aluminium elements with white fibreglass radome	Alodined aluminium elements with black ruggedised fibreglass radome	
Length m		3.1	3.0	
Weight kg		1.5	3.0	
Termination		N female bulkhead		
Mounting Area mm		300mm x 38mm diam. alodined aluminium	500mm x 60mm diam. alodined aluminium	
Suggested Clamps (not included)		2 x UC1		
Projected Area cm²	No Ice	816	1624	
	With Ice	1746	2421	
WindThrust @ 160km/h N		97	193	
Wind Gust Rating km/h		211	240	
Torque @ 160km/h Nm		124	205	