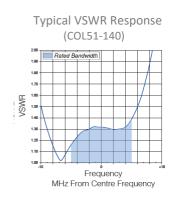


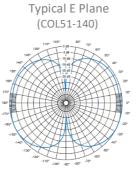
Meander[™] collinear antennas has been specifically designed for wireless applications requiring high performance, broad bandwidth and exceptional PIM and PIP specifications.

The patented Meander[™] collinear element design allows multiple half wave elements to be stacked without the variations in cable lengths and mechanical joints which have typified the construction techniques in high gain collinear antennas. With the dipole elements being printed on a single sided PCB the susceptibility to passive intermodulation is practically eliminated. Placing the elements on a board not only controls PIM but also removes manufacturing variations so that each and every antenna will provide the same pattern, tilt and VSWR characteristics over its operating bandwidth.

Features:

- Excellent bandwidth providing full band coverage
- Internally DC grounded for lighting protection and reduction of precipitation noise
- Low -150dBc PIM performance and excellent 25kW PIP rating
- Patented Meander PCB design for optimum RF stability and repeatability





Electrical Specifications

Model Number	COL51-140-P	COL51-150-P	COL51-160-P	COL51-166-P	COL51-174-P		
Nominal Gain <i>dBd (dBi)</i>	Unity (2.1) nom.						
Frequency MHz	130 – 140	140 – 150	150 – 160	156 – 166	162 – 174		
Tuned Bandwidth	Full band						
VSWR	<1.5:1 (14dB)						
Nominal Impedance Ω	50						
E Plane Beamwidth °	100	106	92	75	82		
H Plane Beamwidth °	Omni ± 0.5dB						
Input Power W	400						
Peak Instantaneous Power kW	25						
Passive IM (2 x 43dBm) <i>dBc</i>	-150						

Mechanical Specifications

Model Number		COL51-140-P	COL51-150-P	COL51-160-P	COL51-166-P	COL51-174-P		
Construction		Ecofilm Aluminium mount tube with sky blue fibreglass radome						
Length mm (in)		2245 (88.4)	2110 (83.1)	2220 (87.4)	2165 (85.2)	2120 (83.5)		
Weight <i>kg (lb)</i>		11 (24)						
Termination		4.3-10 type Female						
Mount Area <i>mm (in)</i>		750 x Ø90 (29.5 x Ø3.5)						
Suggested Clamps		3 x UC114						
Projected Area <i>cm² (ft²)</i>	No Ice	1705 (1.8)	1588 (1.7)	1683 (1.8)	1636 (1.8)	1597 (1.7)		
	Ice	2082 (2.2)	1937 (2.1)	2056 (2.2)	1999 (2.1)	1949 (2.1)		
LateralThrust @160km/h <i>N (100mph lb)</i>		202 (46)	188 (42)	199 (45)	194 (44)	189 (43)		
Torque @160km/h Nm (100mph ft-lb)		85 (63)	67 (49)	82 (60)	74 (55)	68 (50)		
Wind Gust Rating km/h (mph)		240 (150)						
Shiping Weight kg (lb)		15 (33)						
Shipping dimensions L x dia mm (in)		2500 x Ø100 (X Ø4)	2300 x Ø100 (91 X Ø4)	2400 x Ø100 (205 X Ø4)	2400 x Ø100 (X Ø4)	2300 x Ø100 (91 X Ø4)		