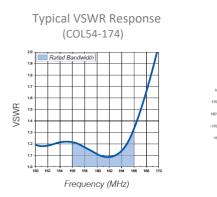


Meander[™] collinear antennas has been specifically designed for wireless applications requiring high performance, broad bandwidth and exceptional PIM and PIP specifications.

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	COL54-155-P	COL54-160-P	COL54-166-P	COL54-174-P		
Nominal Gain <i>dBd (dBi)</i>	6 (8.1)					
Frequency MHz	145 – 155	150 – 160	156 – 166	162 – 174		
Tuned Bandwidth	Full band					
VSWR	<1.5:1 (14dB)					
Nominal Impedance Ω	50					
E Plane Beamwidth °	17					
H Plane Beamwidth °	Omni ± 0.5dB					
Input Power W	400					
Peak Instantaneous Power kW	25					
Passive IM (2 x 43dBm) <i>dBc</i>	-150					

Typical E Plane

(COL54-174)

Mechanical Specifications

Model Number		COL54-155-P	COL54-160-P	COL54-166-P	COL54-174-P	
Construction		Ec	lome			
Length mm (in)			6500 (256)		6000 (236)	
Weight kg (lb)		23 (51)	21 (46)	20 (44)	19 (42)	
Termination			, 			
Mount Area mm	(in)	750 x 90Ø (29.5 x 3.5Ø)				
Suggested Clam	ps	3 x UC114				
Projected Area cm^2 (ft^2)	No Ice	5906 (6.4)	5812 (6.3)	5640 (6.1)	5420 (5.8)	
	Ice	7468 (8.0)	7349 (7.9)	7130 (7.7)	6850 (7.4)	
LateralThrust @160km/h N (100mph lb)		700 (157)	689 (155)	669 (150)	642 (144)	
Torque @160km/h <i>Nm (100mph ft-lb)</i>		2067 (1525)	1757 (1296)	1643 (1212)	1498 (1105)	
Wind Gust Rating	g <i>km/h (mph)</i>	217 (135)	240 (150)			
Shiping Weight kg (lb)		26 (57)	24 (53)	23 (51)	22 (49)	
Shipping dimensions L x dia <i>mm (in)</i>		6700 x Ø100 (264 X Ø4)			6200 x Ø100 (244 X Ø	