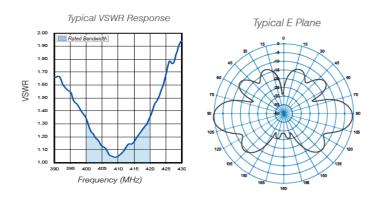


Meander[™] collinear antennas has been specifically designed for wireless applications requiring high performance, broad bandwidth and exceptional PIM and PIP specifications.

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	COL43-400-P	COL43-420-P	COL43-430-P	COL43-470-P	COL43-490-P	COL43-520-P		
Nominal Gain <i>dBd (dBi)</i>	5 (7.1)							
Frequency MHz	380-400	400-420	410-430	450-470	470-490	490-520		
Tuned Bandwidth	Full band							
VSWR	<1.5:1 (14dB)							
Nominal Impedance Ω	50							
E Plane Beamwidth °	21							
H Plane Beamwidth °	Omni ± 0.5dB							
Input Power W	250							
Peak Instantaneous Power kW	25							
Passive IM (2 x 43dBm) <i>dBc</i>	-150							

Mechanical Specifications

Model Numbe	er	COL43-400-P	COL43-420-P	COL43-430-P	COL43-470-P	COL43-490-P	COL43-520-P		
Construction		Ecofilm Aluminium mount tube with sky blue fibreglass radome							
Length mm (in)		2170 (85.4)	2035 (80.1)	1970 (77.6)	1880 (74.0)	1794 (70.60	1735 (68.3)		
Weight <i>kg (lb)</i>		2.9 (6.4)		2.7 (5.9)			2.6 (5.7)		
Termination		4.3-10 type Female							
Mount Area <i>mm (in)</i>		500 x 48.5Ø (19.7 x 1.9Ø)							
Suggested Clamps		2 x UC1							
Projected Area <i>cm² (ft²)</i>	No Ice	980 (1.05)	916 (0.99)	871 (0.94)	810 (0.87)	770 (0.83)	736 (0.79)		
	Ice	1460 (1.57)	1353 (1.46)	1295 ()	1219 (1.39)	1170 (1.26)	1127 (1.21)		
LateralThrust @160km/h <i>N (100mph lb)</i>		116 (26)	109 (25)	103 (23)	96 (22)	91 (21)	87 (20)		
Torque @160km/h <i>Nm (100mph ft-lb)</i>		100 (74)	86 (63)	78 (58)	68(50)	61 (45)	56 (41)		
Wind Gust Rating	g km/h (mph)	240 (150)							
Shiping Weight kg (lb)		4 (8.8)			3.5 (7.7)		3.2 (7.1)		
Shipping dimensions L x dia <i>mm (in)</i>		2300 x 70Ø (90.6 X 2.8Ø)			2200 x 70Ø (86.6 X 2.8Ø)		2000 x 70Ø (78.7 X 2.8Ø)		