

Electrical Specifications

	DIPOLE ARRAYS				CORPORATE COLLINEARS	
Model Number	BA40-57-P		BA80-57-P		CC380-33-P	
Nominal Gain <i>dBd (dBi)</i>		3 (5.1)		6 (8.1)		2 x 3 (5.1)
Frequency <i>MHz</i>		330-420		330-420		380-420
Tuned Bandwidth <i>MHz</i>		90		90		40
VSWR		<1.5:1		<1.5:1		<1.5:1
Nominal Impedance Ω		50		50		50
Downtilt		NA		NA		NA
Vertical Beamwidth $^{\circ}$		30		16		40
Horizontal Beamwidth $^{\circ}$		Omni +/-0.5dB		Omni +/-0.5dB		Omni +/-0.5dB
Input Power <i>Watts</i>		500		500		250
Passive IM 3rd order (2x20W) <i>dBc</i>		< -150		< -150		< -150

Mechanical Specifications

	DIPOLE ARRAYS		CORPORATE COLLINEARS
Model Number	BA40-57-P	BA80-57-P	CC380-33-P
Construction & Configuration	4 dipoles (2 bays) Turnstile stacked Single section support	8 dipoles (4 bays) Turnstile stacked Single section support	Composite fibreglass sky blue radome, aluminum mounting tube.
Length <i>inches</i>	83	118	150
Weight <i>lbs</i>	11	18	33
Shipping Weight <i>lbs</i>	76	84	77
Shipping Dimensions <i>inches</i>	H	17	6
	W	17	6
	L	87	173
Termination	4.3-10 female tail		4.3-10 fixed female + 4.3-10 female tail
Mounting Area	20" x 2" diam. aluminum		20" x 3.5" diam aluminum
Suggested Clamps (not included)	UC12		UC1142
Projected Area <i>ft²</i>	No ice	2.1	3.6
	With ice	3.4	4.3
Lateral Thrust @ 100mph <i>lbs</i>	51	87	90
Wind Gust Rating <i>mph</i>	No ice	>150	>150
	With ice	116	>150
Torque @ 100mph <i>ft-lbs</i>	86	282	428



Electrical Specifications

Model Number	MEANDER COLLINEARS									
	COL45-400-P		COL45-420-P		COL45-430-P		COL410-400-P		COL410-420-P	
Nominal Gain <i>dBd (dBi)</i>	 7 (9.1)		 7 (9.1)		 7 (9.1)		 9 (11.1)		 9 (11.1)	
Frequency <i>MHz</i>	380-400		400-420		400-430		380-400		400-420	
Tuned Bandwidth <i>MHz</i>	20		20		30		20		20	
VSWR	<1.5:1		<1.5:1		<1.5:1		<1.5:1		<1.5:1	
Nominal Impedance Ω	50		50		50		50		50	
Downtilt	NA		NA		NA		NA		NA	
Vertical Beamwidth $^{\circ}$	12.5		12.5		12.5		7.2		7.2	
Horizontal Beamwidth $^{\circ}$	Omni +/-0.5dB		Om ni +/-0.5dB		Omni +/-0.5dB		Omni +/-0.5dB		Omni +/-0.5dB	
Input Power <i>Watts</i>	250		250		250		250		250	
Passive IM 3rd order (2x20W) <i>dBc</i>	<-150		<-150		<-150		<-150		<-150	

Mechanical Specifications

		MEANDER COLLINEARS					
Model Number		COL45-400-P	COL45-420-P	COL45-430-P	COL410-400-P	COL410-420-P	COL410-430-P
Construction & Configuration		Composite fiberglass sky blue radome, aluminum mounting tube					
Length <i>inches</i>		132	122	119	245	234	229
Weight <i>lbs</i>		7	7	7	26	25	25
Shipping Weight <i>lbs</i>		15	15	15	57	55	53
Shipping Dimensions <i>inches</i>	H	3	3	3	5	5	5
	W	3	3	3	5	5	5
	L	138	128	128	252	244	244
Termination		4.3-10 fixed female					
Mounting Area		20" x 2" diam. aluminum			30" x 3" diam. aluminum		
Suggested Clamps (not included)		UC12					
Projected Area <i>ft²</i>	No ice	1.6	1.5	1.5	5.2	5.0	4.8
	With ice	2.7	2.5	2.5	7.2	6.9	6.7
Lateral Thrust @ 100mph <i>lbs</i>		40	37	37	127	122	119
Wind Gust Rating <i>mph</i>	No ice	> 150					
	With ice	116	118	118	138	146	150
Torque @100mph <i>ft-lbs</i>		163	135	130	1068	974	923



Electrical Specifications

Model Number	MEANDER COLLINEARS								
	COL43-400-P	COL43-420-P	COL43-430-P	COL45-400-P	COL45-420-P	COL45-430-P	COL410-400-P	COL410-420-P	COL410-430-P
Nominal Gain <i>dBd (dBi)</i>	5 (7.1)	5 (7.1)	5 (7.1)	7 (9.1)	7 (9.1)	7 (9.1)	9 (11.1)	9 (11.1)	9 (11.1)
Frequency <i>MHz</i>	380-400	400-420	410-430	380-400	400-420	410-430	380-400	400-420	410-430
Tuned Bandwidth <i>MHz</i>	Full Band	Full Band	Full Band	Full Band	Full Band	Full Band	Full Band	Full Band	Full Band
VSWR	<1.5:1 (14dB)	<1.5:1 (14dB)	<1.5:1 (14dB)	<1.5:1	<1.5:1	<1.5:1	<1.5:1	<1.5:1	<1.5:1
Nominal Impedance Ω	50	50	50	50	50	50	50	50	50
Vertical Beamwidth $^{\circ}$	21	21	21	12.5	12.5	12.5	7.2	7.2	7.2
Horizontal Beamwidth $^{\circ}$	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB	Omni $\pm$ 0.5dB
Input Power <i>Watts</i>	250	250	250	250	250	250	250	250	250
Passive IM 3rd order (2x20W) <i>dBc</i>	-150	-150	-150	-150	-150	-150	-150	-150	-150
Peak Instantaneous Power <i>KW</i>	25	25	25	25	25	25	25	25	25

Mechanical Specifications

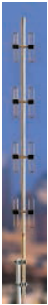
		MEANDER COLLINEARS								
Model Number		COL43-400-P	COL43-420-P	COL43-430-P	COL45-400-P	COL45-420-P	COL45-430-P	COL410-400-P	COL410-420-P	COL410-430-P
Construction & Configuration		Ecofilm Aluminium mount tube with sky blue fibreglass radome			Sky Blue fibreglass radome					
Length <i>inches</i>		85.4	80.1	77.6	132.3	122.0	119.9	245	234	229
Weight <i>lbs</i>		6.4	5.9	5.7	6.6			26	25	
Shipping Weight <i>lbs</i>		8.8			11.0			56.2	55	53
Shipping Dimensions <i>inches</i>	H	2.8			2.8			5		
	W	2.8			2.8			5		
	L	90.6			141.7	129.9	126.0	252	240	235
Termination		4.3-10 fixed female								
Mounting Area		19.7						30		
Suggested Clamps (not included)		2xUC1								
Projected Area <i>ft²</i>	No ice	1.05	0.99	0.94	1.63	1.51	1.48	5.2	5.0	4.8
	With ice	1.57	1.46	1.39	2.72	2.51	2.46	7.2	6.9	6.7
Lateral Thrust @ 100mph <i>lbs</i>		26	25	23	40	37	37	127	122	119
Wind Gust Rating <i>mph</i>	No ice	150			144	149		>150		
Torque @100mph <i>ft-lbs</i>		74	63	58	163	135	128	1068	974	923



Directional
UHF Dipole Array Antennas
330-420 MHz



Electrical Specifications

DIPOLE ARRAYS								
Model Number	EA40-57-P		EA80-57-P		OA20-57-P		OA40-57-P	
Nominal Gain <i>dBd (dBi)</i>		5 (7.1)		8 (10.1)		5 (7.1)		9 (11.1)
Frequency <i>MHz</i>		330-420		330-420		330-420		330-420
Tuned Bandwidth <i>MHz</i>		90		90		90		90
VSWR		<1.5 :1		<1.5 :1		<1.5 :1		<1.5 :1
Nominal Impedance Ω		50		50		50		50
Downtilt		NA		NA		NA		NA
Vertical Beamwidth $^{\circ}$		34		17		35		17
Horizontal Beamwidth $^{\circ}$		70		74		175		173
Input Power <i>Watts</i>		500		500		500		500
Passive IM 3rd order (2x20W) <i>dBc</i>		<-150		<-150		<-150		<-150

Mechanical Specifications

DIPOLE ARRAYS					
Model Number	EA40-57-P		EA80-57-P		OA40-57-P
Construction & Configuration	4 dipoles (2 bays) In-line stacked Single section support		8 dipoles (4 bays) In-line stacked Single section support		4 dipoles Single sided Single section support
Length <i>inches</i>	83		118		118
Weight <i>lbs</i>	11		18		14
Shipping Weight <i>lbs</i>	76		84		44
Shipping Dimensions <i>inches</i>	H	17	17	15	17
	W	17	17	7	7
	L	97	126	87	126
Termination	4.3-10 female tail				
Mounting Area	20" x 2" diam aluminum				
Suggested Clamps (not included)	UC12				
Projected Area <i>ft²</i>	No ice	2.4	4.1	1.8	3
	With ice	4.1	7.6	2.9	5.2
Lateral Thrust @ 100mph <i>lbs</i>	59		102		74
Wind Gust Rating <i>mph</i>	No ice	>150	128	>150	>150
	With ice	111	94	118	113
Torque @100mph <i>ft-lbs</i>	99		335		243

