

Omni Directional Meander Collinear Antennas 746- 930 MHz



MEANDER COLLINEARS

Electrical Specifications														
Model Number	COL85-806	COL85-870	COL85-930	COL811-806	COL811-824	COL811-870	COL811-930							
Nominal Gain dBi (dBi)	7 (9.1)	7 (9.1)	7 (9.1)	9 (11.1)	9.0 (11.1)	9 (11.1)	9 (11.1)							
Frequency MHz	746-806	806-870	850-930	746-806	796-824	806-870	850-930							
Tuned Bandwidth MHz	60	64	80	60	Full	64	80							
VSWR	<1.5 :1	<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							
Downtilt	NA	NA	NA	NA	NA	NA	NA							
Vertical Beamwidth°	13°	13°	13°	6.5°	6.5°	6.5°	6.5°							
Horizontal Beamwidth°	Omni +/- 0.5dB	Omni +/-0.5dB	Omni +/-0.5dB	Omni +/-0.5dB	Omni +/-0.5dB	Omni +/-0.5dB	Omni +/-0.5dB							
Input Power Watts	250	250	250	250	250	250	250							
Passive IM 3rd order (2x20W) dBc	<-150	<-150	<-150	<-150	<-150	<-150	<-150							
Peak Instantaneous Power (kW)	25	25	25	25	25	25	25							

Mechanical Specifications								
Model Number	COL85-806	COL85-870	COL85-930	COL811-806	COL811-824	COL811-870	COL811-930	
Construction & Configuration	Composite fiberglass sky blue radome, aluminum mounting tube							
Length inches	77	73	69	142	138.6	133	126	
Weight lbs	4.8	4.6	4.5	7.3	7.1	6.9	6.6	
Shipping Weight lbs	9	9	9	11	11	11	11	
Shipping Dimensions inches	H	3	3	3	3	3	3	
	W	3	3	3	3	3	3	
	L	83	79	79	149	145.7	138	
Termination	7/16" DIN fixed female							
Mounting Area	20" x 2" diam. Aluminum							
Suggested Clamps (not included)	UC12							
Projected Area ft²	No ice	0.9	0.8	0.8	1.8	1.7	1.6	1.5
	With ice	1.4	1.3	1.2	2.9	2.9	2.7	2.6
Lateral Thrust @ 100mph lbs	22	21	20	43	43	40	38	
Wind Gust Rating mph	No ice	>150	>150	>150	>150	>150	>150	>150
	With ice	>150	>150	>150	>150	>150	>150	>150
Torque @100mph ft-lbs	38	32	27	193	183	164	144	

RFI
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Omni Directional
Corporate Collinear Antennas
746 - 870 MHz



CORPORATE COLLINEAR								
Electrical Specifications		CC807-03		CC807-06		CC807-08		CC807-11
Model Number								
Nominal Gain <i>dBi</i>		3 (5.1)		6 (8.1)		8 (10.1)		10.5 (12.6)
Frequency <i>MHz</i>		746-870		746-870		746-870		746-870
Tuned Bandwidth <i>MHz</i>		124		124		124		124
VSWR		<1.5 :1		<1.5 :1		<1.5 :1		<1.5 :1
Nominal Impedance Ω		50		50		50		50
Downtilt		NA		0°(std), 3°, 5°		0°(std), 1°, 3°, 5°		0°(std), 1°, 3°, 5°
Vertical Beamwidth°		28°		17°		9°		4.5°
Horizontal Beamwidth°		Omni +/-0.5dB		Omni +/-0.5dB		Omni +/-0.5dB		Omni +/-0.5dB
Input Power <i>Watts</i>		250		500		500		500
Passive IM 3rd order (2x20W) <i>dBc</i>		<-150		<-150		<-150		<-150
Peak Instantaneous Power (kW)		25		25		25		25

Mechanical Specifications					
Model Number		CC807-03	CC807-06	CC807-08	CC807-11
Construction & Configuration		Composite fiberglass sky blue radome, aluminum mounting tube			
Length <i>inches</i>		48	69	114	206
Weight <i>lbs</i>		9	16	27	49
Shipping Weight <i>lbs</i>		18	25	40	88
Shipping Dimensions <i>inches</i>	H	6	6	6	6
	W	6	6	6	6
	L	55	75	119	220
Termination		7/16"DIN fixed female			
Mounting Area		20" x 3.5" diam . aluminum		30" x 3.5" diam. aluminum	
Field Invertable		Yes. Excludes tilt variants			
Suggested Clamps (not included)		UC1143			
Projected Area <i>ft²</i>	No ice	0.9	1.4	2.5	4.9
	With ice	1.2	1.7	3.1	6.2
Lateral Thrust @ 100mph <i>lbs</i>		22	34	62	130
Wind Gust Rating <i>mph</i>	No ice	>150	>150	>150	>150
	With ice	>150	>150	>150	>150
Torque @100mph <i>ft-lbs</i>		15	54	205	761

(1) Factory pre-set downtilt as shown in individual product spec, may be specified upon ordering using model number trailer- T1, T3, -T5 eg. CC807-06-T3

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