CC807 Series

7/800 MHz Corporate Collinear Antennas

746-870 MHz



These industry leading PIM and PIP rated collinear arrays allow site operators to combine, with complete integrity, a large number of communications services into a single, low profile collinear antenna array.

The true corporate feed of these arrays maintains total pattern integrity over a very broad operating bandwidth, similar to that previously available only in exposed dipole configurations. This is now achieved in the preferred form factor of a fully enclosed fiberglass radome. The corporate collinears employ a unique corporate phasing system enabling precision control of the element placements ensuring phase purity resulting in exceptional bandwidth and electrical performance .

Gain is maximized and side lobes reduced dramatically. In a patent pending design approach the individual dipole elements including matching network are fabricated entirely of a flexible circuit board. The dipole elements are soldered to a brass support tube which is directly connected to the mounting tube and the lightning spike at the top of the antenna.

The result of this unique, incredibly strong design is:

- Peak Instantaneous Power rating (PIP) 25 kW
- Passive Intermodulation rating (PIM) -150 dBc
- High continuous power rating
- · Extraordinary bandwidth characteristics with superior pattern control
- Field invertible (most models)





USA patent: 7,365,698

Australia patent: 2005904524

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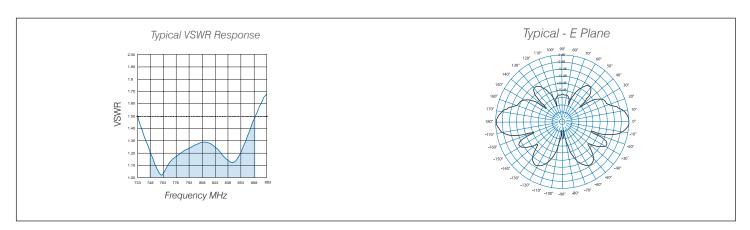


Electrical Specifications							
Model Number	CC807-03	CC807-06	CC807-08	CC807-11			
Nominal Gain dBd (dBi)	3 (5.1)	6 (8.1)	8 (10.1)	10.5 (12.6)			
Frequency MHz	746 - 870						
Tuned Bandwidth MHz	124						
VSWR	<1.5:1						
Nominal Impedance Ω	50						
Downtilt	N/A	0° Std - 5° (1)	0° Std - 5° (1)	0°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

Mechanical Specifications							
Model Number		CC807-03	CC807-06	CC807-08	CC807-11		
Construction		Composite fiberglass sky blue radome aluminum mounting tube					
Length inches		48	69	114	206		
Weight lbs		9	16	27	49		
Radome Diameter inches		3					
Shipping Weight Ibs		18	25	40	88		
Shipping Dimensions inches	Н	6					
	W	6					
	L	56	75	119	220		
Termination		7/16" DIN fixed female					
Invertible Mounting		Yes (2)					
Suggested Clamps (not included)		UC1143					
Projected area ft²	No ice	0.9	1.4	2.5	4.9		
	with ice	1.2	1.7	3.1	6.2		
Lateral (Thrust) @ 100mph lbs		22	34	62	121		
Wind Gust Rating mph		>150					
Torque @ 100mph ft-lbs		15	54	205	761		

Note (1) Pre-set downtilt variations of 5 degrees are available in the following models CC807-08, CC807-11. Simply add -T5 at the end of the model being ordered. E.g. CC807-08-T5, CC807-11-T5

(2) Downtilt versions can not be field inverted.



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