

800 MHz Corporate Collinear Antennas

746-870 MHz

CC807 Series



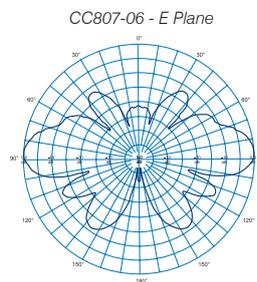
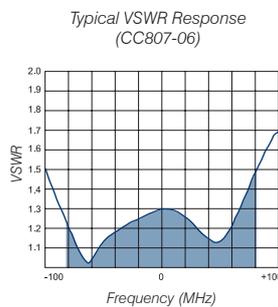
These industry leading PIM and PIP rated collinear arrays allow site operators to combine, with complete integrity, a large number of communications services into a single, low profile collinear antenna array.

The true corporate feed of these arrays maintains total pattern integrity over a very broad operating and width, 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 maximised and side lobes reduced dramatically. In a patented design approach the individual 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.

Features:

- 500W Continuous Power rating for CC807-11, CC807-08, CC807-06
- -150dBc Passive Intermodulation (PIM) rating
- 25 kW Peak Instantaneous (PIP) rating
- Extraordinary bandwidth characteristics with superior pattern control
- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise.



Electrical Specifications

Model Number	CC807-03-P	CC807-06-P	CC807-08-P	CC807-11-P
Nominal Gain dBi (dBi)	3 (5.1)	6 (8.1)	8 (10.1)	10.5 (12.6)
Frequency MHz	746 - 870			
Tuned Bandwidth MHz	Full Band			
VSWR (Return Loss)	<1.5:1			
Downtilt ^o (1)	Not Offered	0 °Std, -3°, -5°	0 °Std, -1°, -2°, -3°, -4°, -5°	
Vertical Beamwidth ^o	28	17	9	4.5
Horizontal Beamwidth ^o	Omni +/- 0.5dB			
Input Power W	250		500	
Passive IM 3rd order (2x20W) dBc	-150			
Peak Instantaneous Power kW	25			

Mechanical

Model Number	CC807-03-P	CC807-06-P	CC807-08-P	CC807-11-P	
Construction	Sky blue fibreglass radome				
Length mm (inches)	1203 (47)	1741 (69)	2817 (111)	5219 (205)	
Radome Diameter mm (inches)	76 (3)				
Weight kg (lbs)	4 (9)	7 (16)	12(27)	22 (49)	
Shipping Weight kg (lbs)	8 (18)	11 (25)	18 (40)	30 (66)	
Shipping Dimensions mm (inches)	H	115 (4.5)			
	W	115 (4.5)			
	L	1400 (55)	1900 (75)	3000 (118)	5600 (220)
Termination	4.3-10 fixed female				
Suggested Clamps (not included)	2 x UC-114				
Invertible Mounting	Yes (1)				
Projected area cm ² (ft ²)	No Ice	806 (0.9)	1268 (1.4)	2320 (2.5)	4560 (4.9)
	With Ice	1048 (1.2)	1571 (1.7)	2880 (3.1)	5760 (6.2)
Lateral Thrust @160km/h N (100 mph lbs)	96 (22)	150 (34)	276 (62)	540 (121)	
Wind Gust Rating km/h (mph)	No Ice	>240 (>150)			
Torque @ 160km/h Nm (100mph ft-lbs)	20 (15)	73 (54)	278 (205)	1032 (761)	

(1) To order pre-set downtilt versions available, simply add a -T2 or -T4, etc towards the end of the part number to denote the downtilt model required. For eg. CC807-11-T2-P to order a CC807-11-P with 2 deg of downtilt. Please note: Models with downtilt are NOT field invertible.