

Multi-band High Gain Collinear Antenna

824-960 MHz / 1710-2170 MHz

CD2100 Series



CD2100 Series antennas offer revolutionary multi-band performance for the most demanding of voice and data requirements. With high gain and consistent performance across 3G850, GSM900/1800, 3G900, GSM-R1800, PCS1900 and 3G2100 they are ideal for use in fringe areas and rural applications across the world.

The secret to this extraordinary performance lies in the use of two unique PCB radiators. These meander circuits are coupled together to deliver extraordinary consistency in gain and pattern. This latest design offers coverage across multiple networks – ideal for the latest requirements where network operators can switch calls between bands.

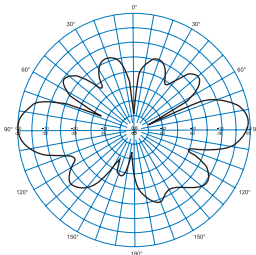
With a 13mm stud mount on an heavy duty electropolished stainless steel spring, these antennas may be installed on a number of mounting brackets and are ideal for installations in commercial vehicles, four wheel drives and trucks. They are also available as fixed base station antennas for wireless modem applications - see COL2100 series.



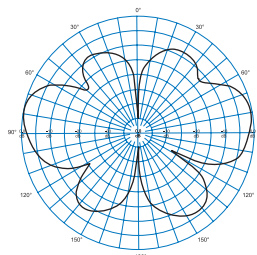
Features:

- Patented PCB based collinear design offering the ultimate in pattern and gain stability
- Ideal for all new 3G networks with true multi-band coverage
- 6.5dBi gain across 824-960MHz suiting fringe and rural applications
- Min. 3dBi gain at 2100MHz to suit metropolitan applications today and future proofing for network expansions

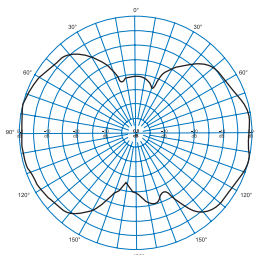
Typical E-Plane response
3G850 (CD2195)



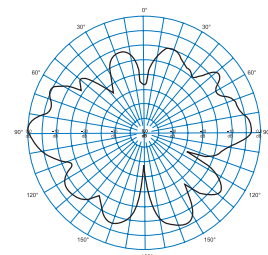
Typical E-Plane response
GSM900, 3G 900 (CD2195)



Typical E-Plane response
GSM1800 (CD2195)



Typical E-Plane response
3G2100 (CD2195)



Electrical

Model Number	CD2194		CD2195		CD2197		CD2199	
Nominal Gain <i>dBi</i>	5.5	3	6.5	3	7.5	3	9	3
Frequency <i>MHz</i>	824-960	1710-2170	824-960	1710-2170	824-960	1710-2170	824-960	1710-2170
Tuned Bandwidth	Full							
VSWR	<2.5:1							
Impedance Ω	50							
Vertical Beamwidth	31°	57°	21°	57°	18°	40°	9°	40-60°
Input Power <i>W</i>	10							

Mechanical

Model Number	CD2194		CD2195		CD2197		CD2199	
Construction	Black radome, electro-polished S/S spring		Black radome, electro-polished S/S spring		Black radome, heavy duty S/S spring		Black replacable whip, heavy duty S/S spring with aluminium ferrules	
Length <i>mm</i>	655		890		1140		1855	
Radome Diameter <i>mm</i>	15.6		15.6		15.6		15.6	
Weight <i>kg</i>	0.57		0.57		0.648		1.288	
Shipping weight <i>kg</i>	0.835		0.906		0.968		1.826	
Shipping Dimensions <i>mm</i>	H	65	65	65	65	65	65	65
	W	65	65	65	65	65	65	65
	L	730	1050	1050	1205	1205	2000	2000
Termination	5m of 9006 low loss cable with FME							
Mounting Area	13mm diameter mount hole required							

USA Patent No. 6,909,403 B2 European Patent No. 1411588 and other pending applications: Aust Patent App. No. 2003255049
Chinese Patent App No. 200310100548.5 Indian Patent App No. 844/CHE/2003