

Vertical Collinear Antenna

2400-2500 MHz

CD2400 Series



CD2405

The CD2400 series of antennas are high performance meander style collinear base station antenna which cover from 2400MHz to 2500MHz.

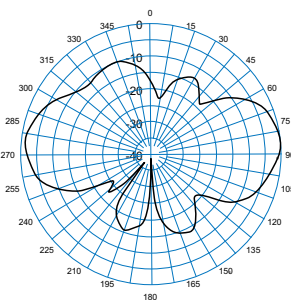
The patented PCB-based design delivers consistent VSWR, pattern and tilt characteristics across the entire operating bandwidth, by removing manufacturing variations found in other, more traditional mechanical collinear designs.

This antenna incorporates an N male connector with internal integrated PCB. It is covered with black fibreglass radome, matching black cap and delrin connector housing, making it ideal for outdoor applications.

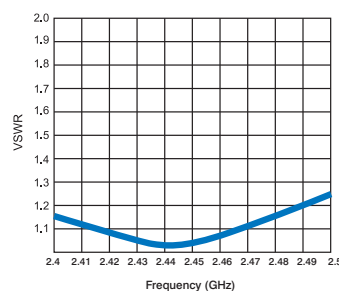
- Tightly controlled radiation patterns for optimum coverage
- Integrated N male connector at base
- PCB design for optimum RF pattern stability
- Small unobtrusive design

Australian Patent Number 2003255049, USA Patent No. 6909403, European Patent No. 03 023406.6, Chinese Patent No. 200310100548.5, and Indian Patent No. 844/CHE/2003

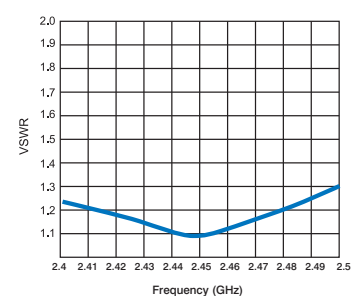
Typical CD2405 - E Plane



Typical VSWR response (CD2405)



Typical VSWR response (CD2409)



Electrical

Model Number	CD2405	CD2409
Frequency MHz	2400 - 2500	
Nominal Gain dBi	4.5	8.5
Tuned Bandwidth MHz	Full	
VSWR (Return Loss)	<1.5:1 (14dB)	
Polarisation	Vertical	
Vertical Beamwidth degrees	33	13
Horizontal Beamwidth degrees	360	
Nominal Impedance Ω	50	
Power Rating W	5	

Mechanical

Model Number	CD2405	CD2409
Connector/Termination	Integrated N male	
Mounting Area	Integrated N male	
Suggested Clamping/Finish	Bulkhead N female/black fibreglass radome and black Delrin connector housing	
Overall length mm	205	460
Weight kg	0.1	0.15
Wind Loading	no ice	4
@ 160 km/h N	with ice	11
Max. torque at clamps	no ice	1
@ 160 km/h Nm	with ice	3
Projected Area cm ²	no ice	35
	with ice	97



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