

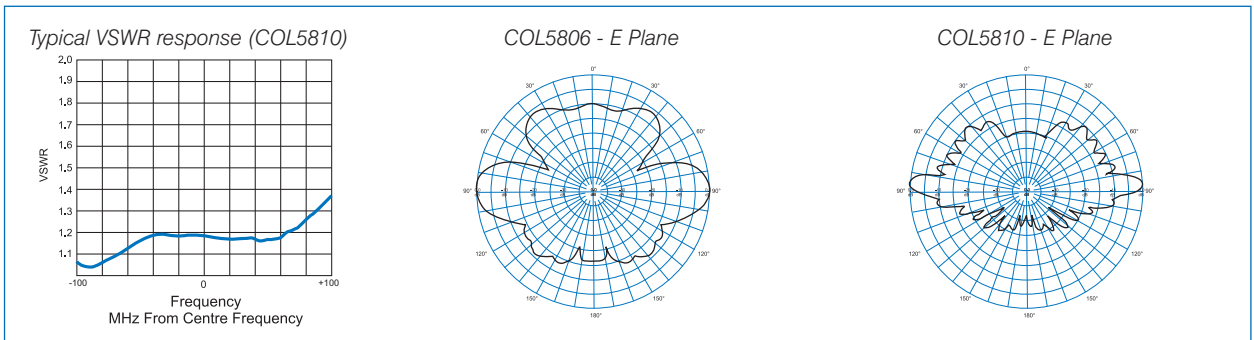
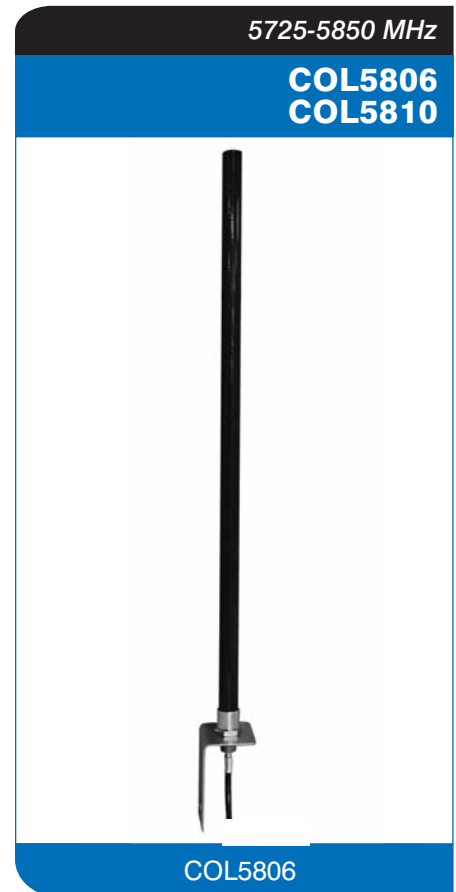
# Vertical Collinear Antennas

These antennas offer a rugged omnidirectional solution for many varied applications in the unlicensed 5800 MHz spectrum including fixed wireless, wireless video, wireless broadband (WBB) and rural telephony. With gains of 6dBi and 10dBi these collinears deliver maximum range and versatility for the network designer.

The patented PCB based design offers superior pattern stability across the entire band avoiding inherent pattern tilting common in more traditional collinear designs.

- Tightly controlled radiation patterns for optimum coverage
- Rugged construction meets all installation requirements
- Small unobtrusive design
- PCB design for optimum RF pattern stability

USA Patent No. 6909403B  
 European Patent: 1411588  
 Australia Patent: 2003255049  
 China Patent: 200310100548.5  
 India: 844/CHE/2003



## Electrical

Model Number	COL5806	COL5810
Nominal Gain <i>dBi</i>	6	10
Frequency <i>MHz</i>	5725 - 5850	
Tuned Bandwidth <i>MHz</i>	Entire band	
VSWR (Return Loss)	<1.5:1	
Nominal Impedance $\Omega$	50	
Vertical Beamwidth	21°	8°
Horizontal Beamwidth	Omni +/-1dB	
Input Power <i>W</i>	5	

## Mechanical

Model Number	COL5806	COL5810
Construction	Fibreglass radome with nickel plated mounting ferrule	
Length <i>mm</i>	160	425
Radome Diameter <i>mm</i>	16	16
Weight <i>kg</i>	0.10	0.13
Suggested Clamps	1 x TLM-3 or MM2 bracket	
Cable and Connector	200mm of 9006 cable tail terminated with N-Female connector	