# **Unity Gain Broadband Dipole Antenna**

### 380-520 MHz

COD4 Series



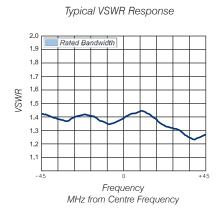
The COD4 unity gain broadband dipole antenna is designed to cover the entire 380-470MHz & 450-520MHz frequency bands. Suitable applications include low power base stations and RF Control Stations in the emerging whole-of-government UHF frequency allocations, and other applications requiring a wide operating frequency bandwidth.

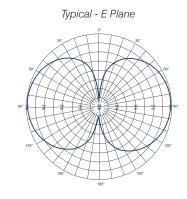
A unique circuit board radiator design provides a balanced and effective centre fed dipole radiator. As a centre fed antenna, not only is gain consistent across its entire frequency band but the vertical radiation pattern is stable in beam width, resulting in consistent performance across the entire frequency band.

This antenna is internally DC grounded for optimum lightning protection and for the reduction of static noise, and is lightweight for easy installation on support structures.

#### Features:

- Broadband Covers the entire 380-470 MHz & 450-520 MHz bands without adjustment
- Consistent Gain Circuit board radiator design provides consistent gain across the operating bandwidth
- Stable Beam Width Vertical radiation pattern is stable across the entire frequency range
- Unity gain omnidirectional radiation pattern with excellent null-fill characteristics





## **Electrical Specifications**

Model Number	COD4-3847	COD4-4552	
Nominal Gain dBd (dBi)	0 (2.1)		
Frequency MHz	380 - 470	450-520	
Tuned Bandwidth MHz	Full		
VSWR (Return Loss)	<1.5:1		
Nominal Impedance Ω	50		
Vertical Beamwidth°	83°		
Horizontal Beamwidth°	Omni +/-0.5dB		
Input Power W	100		

#### **Mechanical Specifications**

Model Number		COD4-3847	COD4-4552	
Construction		White fibreglass composite PCB and Aluminium tube		
Length m		0.925		
Weight kg		0.56		
Termination		N series jack		
Mounting Area mm		100mm x 25mm diam. alodined aluminium		
Suggested Clamps (not included)		2 x UC1 or 2 x UB1		
Projected Area cm²	No Ice	250		
	With Ice	4	463	
Wind load (Thrust) @ 160km/h		30		
Torque Nm		8		