

ANTENNA AD4504

HORWIN AD 4504 is a four-dipole element array wide band UHF antenna for professional radio systems.

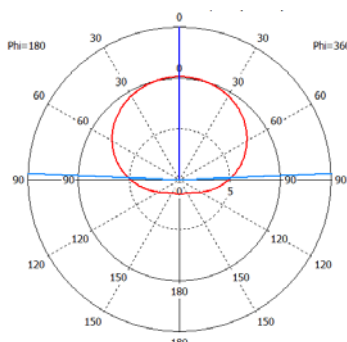
Dipole incorporates "balun" matching circuit optimized for wide bandwidth and accurate matching. More gain is achieved by coupling single folded dipoles into arrays. Dipoles in array are coupled by precision phasing cable harness keeping low SWR and minimum insertion losses. The horizontal radiation pattern is adjusted by changing the distance between dipole elements and supporting mast. All antenna parts are made of aluminium and covered with polymer powdered coating which resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. All components of dipole elements are DCgrounded for better lightning and antistatic protection.



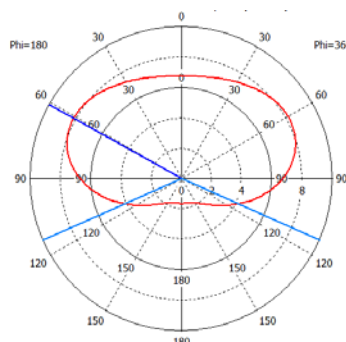
AD4504

Frequency range, MHz	400 – 470	
Bandwidth @ SWR < 1,5, MHz	70	
Elements	4	
Gain, dBd (1/4 λ dipole to mast spacing)	6	
Gain, dBd (3/8 λ dipole to mast spacing)	9	
Power rating, W	200	
Overall dimensions, mm	H	2200
5/8λ spacing	D	550
Weight (aprox.), kg	7,2	
Impedance, Ohm	50	
Termination	N- female	
Vertical beamwidth (3/8 spacing)	19°	
Max. exposed area, m ²	0,112	
Lateral thrust at 45 m/s, H	128	
Lightning protection	CD Ground	
Rated wind velocity, m/s	55	
Rated wind velocity with 0.5" icing, m/s	28	

E-plane ¼ λ dipole to mast spacing



E-plane 3/8 λ dipole to mast spacing



H-plene (Horwin AD 4504)

