ANTENNA AD4502

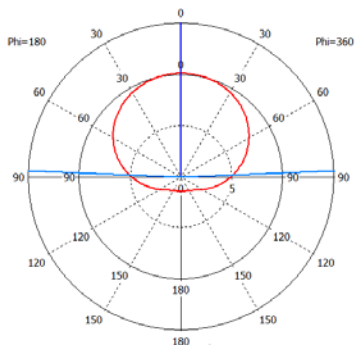
AD 4502 is a two-dipole element array wide band UHF antenna for professional radio systems.

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.

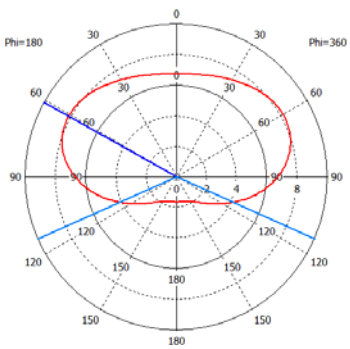
The horizontal radiation pattern is adjusted by changing the distance between dipole elements and supporting mast. All antenna parts are made of aluminium and covered with polymer powdered coating which resists water and ice buildup, and provides exceptional protection from corrosive gases, UV radiation, salt spray, acid rain and windblown abrasives. All components of dipole elements are DCgrounded for better lighting and antistatic protection.

		AD4502
Frequency range, MHz		400 – 470
Bandwidth @ SWR < 1,5, MHz		70
Elements		2
Gain, dBd (1/4 λ dipole to mast spacing)		3
Gain, dBd (3/8 λ dipole to mast spacing)		5,6
Power rating, W		200
Overall dimensions, mm	H	800
5/8λ spacing	D	550
Weight (aprox.), kg		3,2
Impedance, Ohm		50
Termination		N- female
Vertical beamwidth (3/8 spacing)		37°
Max. exposed area, m^2		0,056
Lateral thrust at 45 m/s, H		64
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 4502)