

LPD Antenna Array

S24014/2

80 MHz – 2000 MHz



The antenna array S24014/2 consists of two LPD antennas. The array provides optimized gain for its limited antenna size. To obtain a rear cross section of less than 1.4 m x 1.4 m the last three radiators are folded. The rear distance of the two LPDs was also chosen to achieve the cross section. The limited cross section reduces the gain in the lower frequency edge, but nevertheless the gain of the array is clearly higher than the gain of one single antenna. At higher frequencies this difference increases. The photograph shows the antenna with an optional mast. The mast offers manual adjustment of height, polarization and tilt angle of the antenna.

Technical Data

Electrical	Frequency range	80 – 2000 MHz
	Gain in free space	
	80 – 100 MHz	typ. 7 dBi
	from 100 MHz	increasing to 9.5 dBi
	Half power beam width	
	E-plane	typ. 85°
	H-plane	35° – 80°
	Polarization	linear
	Nominal input impedance	50 Ω
	VSWR	2.5 : 1 (max.)
	RF input power	
80 – 500 MHz	2 kW	
above 500 MHz	1 kW	
Mechanical	RF connector	7-16 socket
	Dimensions	see figures 1 and 2
Environmental	The antenna is intended for indoor use	
Options	Mast with adjustment of height, elevation and polarization	