

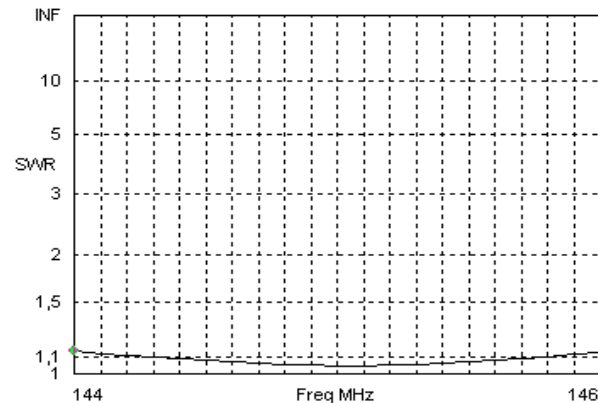
Bausatz Dipol 144 MHz mit 0,3m Boom im 50 Ohm Design
Antenna kit Dipole 144 MHz with 0,3m boom in 50 Ohm Design

Antennenabmessungen / Dimensions table			
	Durchmesser Diameter (mm)	Länge / Length (mm)	Position (mm)
Strahler / Radiator	10	939	250

This dipole has to be mounted vertically and 250mm in front of a vertical mast.
 The diagrams show the plot with a 40mm mast. The thicker the mast is, the more gain you will reach and the better is the directivity of the antenna.

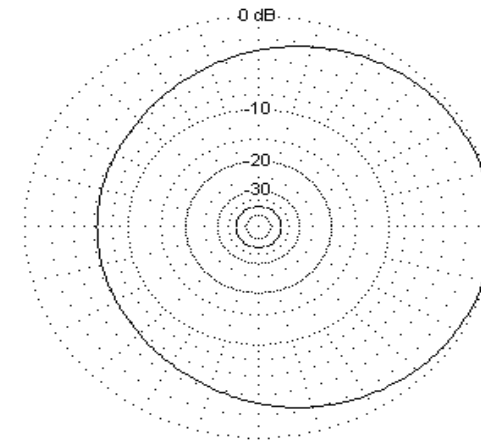
Der Dipol wird vertikal mit 250mm Abstand zum Mast montiert. Die Diagramme zeigen ein Beispiel mit 40mm Mastdurchmesser. Je dicker der Mast ist, desto besser werden Gewinn und Richtwirkung der Antenne.

SWR:



Freq 144 MHz Source # 1
 SWR 1,13 Z0 50 ohms
 Z 46,48 - j 4,863 ohms
 Refl Coeff 0,06213 at -122,99 deg.

Azimuth:



EZNEC-M

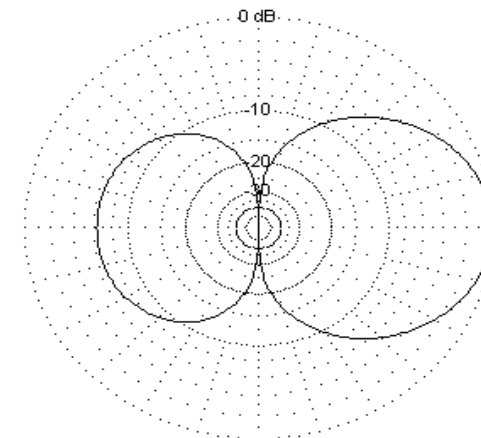
144,3 MHz

Azimuth Plot
 Elevation Angle 0,0 deg.
 Outer Ring 2,65dBref

Cursor Az 0,0 deg.
 Gain 2,65 dBref
 0,0 dBmax

Slice Max Gain 2,65 dBref @ Az Angle = 0,0 deg.
 Front/Back 6,33 dB
 Beamwidth 178,8 deg.; -3dB @ 270,6, 89,4 deg.
 Sidelobe Gain < -100 dBi
 Front/Sidelobe > 100 dB

Elevation:



EZNEC-M

144,3 MHz

Elevation Plot
 Azimuth Angle 0,0 deg.
 Outer Ring 2,65dBref

Cursor Elev 0,0 deg.
 Gain 2,65 dBref
 0,0 dBmax

Slice Max Gain 2,65 dBref @ Elev Angle = 0,0 deg.
 Front/Back 6,33 dB
 Beamwidth 67,6 deg.; -3dB @ 326,2, 33,8 deg.
 Sidelobe Gain -3,68 dBref @ Elev Angle = 180,0 deg.
 Front/Sidelobe 6,33 dB