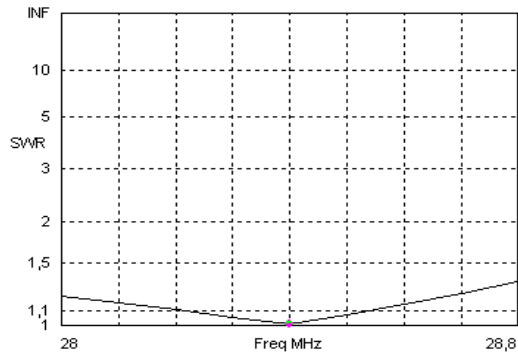


Bausatz 7 ele Yagi 28/50 MHz mit 3,7m Boom im 50 Ohm Design
Antenna kit 7 ele Yagi 28/50 MHz with 3,7m boom in 50 Ohm Design

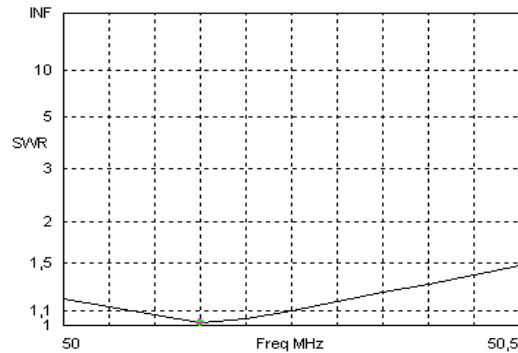
Antennenabmessungen je Antennenhälfte			
Dimensions table for each antenna half			
	Position (mm)	16 x 1,5mm	12 x 1mm
Reflektor / Reflector 10m	0	1000	1740
Reflektor / Reflector 6m	800	500	930
Strahler / Radiator 6m/10m	2000	1000	1610
Open Sleeve 6m	2088	500	949
Direktor 1 / Director 1 6m	2600	500	860
Direktor / Director 10m	3300	1000	1360
Direktor 2 / Director 2 6m	3600	500	870

	28,400 MHz	50,150 MHz
Gewinn / Gain	4,86 dBd	6,72 dBd
V/R Verhältnis / F/B ratio	23,54 dB	11,85 dB

SWR:

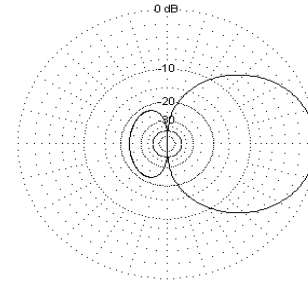


Freq 28,4 MHz Source # 1
 SWR 1,009 Z0 50 ohms
 Z 49,74 + j 0,3547 ohms
 Refl Coef 0,004392 at 125,73 deg.



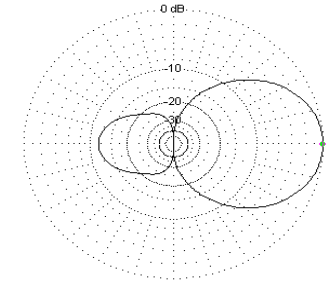
Freq 50,15 MHz Source # 1
 SWR 1,016 Z0 50 ohms
 Z 49,99 - j 0,7699 ohms
 Refl Coef 0,0077 at -90,13 deg.

Horizontales Richtdiagramm / Azimuth plot 28 MHz



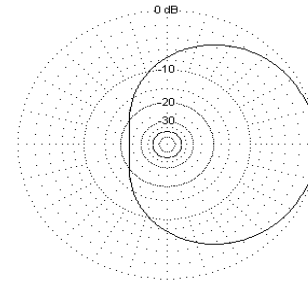
28,4 MHz
 Azimuth Plot
 Elevation Angle 0,0 deg.
 Outer Ring 4,86dBref
 Slice Max Gain 4,86 dBref @ Az Angle = 0,0 deg.
 Front/Back 23,54 dB
 Beamwidth 67,2 deg.; -3dB @ 326,4, 33,6 deg.
 Sidelobe Gain -17,0 dBref @ Az Angle = 125,0 deg.
 Front/Sidelobe 21,86 dB

50 MHz



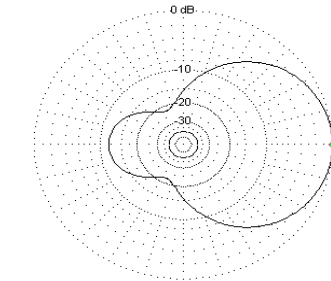
50,15 MHz
 Azimuth Plot
 Elevation Angle 0,0 deg.
 Outer Ring 6,72dBref
 Slice Max Gain 6,72 dBref @ Az Angle = 0,0 deg.
 Front/Back 11,85 dB
 Beamwidth 61,0 deg.; -3dB @ 329,5, 30,5 deg.
 Sidelobe Gain -5,14 dBref @ Az Angle = 180,0 deg.
 Front/Sidelobe 11,85 dB

Vertikales Richtdiagramm / Elevation plot 28 MHz



28,4 MHz
 Elevation Plot
 Azimuth Angle 0,0 deg.
 Outer Ring 4,86dBref
 Slice Max Gain 4,86 dBref @ Elev Angle = 0,0 deg.
 Front/Back 23,54 dB
 Beamwidth 122,4 deg.; -3dB @ 298,8, 61,2 deg.
 Sidelobe Gain < -100 dB
 Front/Sidelobe > 100 dB

50 MHz



50,15 MHz
 Elevation Plot
 Azimuth Angle 0,0 deg.
 Outer Ring 6,72dBref
 Slice Max Gain 6,72 dBref @ Elev Angle = 0,0 deg.
 Front/Back 11,85 dB
 Beamwidth 88,6 deg.; -3dB @ 315,7, 44,3 deg.
 Sidelobe Gain -5,14 dBref @ Elev Angle = 180,0 deg.
 Front/Sidelobe 11,85 dB