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**Bausatz 5 ele Yagi 144 / 432 mit 0,52m Boom im 50 Ohm Design**  
**Antenna kit 4 ele Yagi 144 / 432 MHz with 0,52m boom in 50 Ohm Design**

Antennenabmessungen / Dimensions table			
	Durchmesser Diameter (mm)	Länge / Length (mm)	Position (mm)
Reflektor / Reflector 2m	6	1022	0
Reflektor / Reflector 70cm	6	320	230
Radiator 2m/70cm	6	939	370
Open Sleeve Element 70cm	6	323 (332)	399 (389)
Direktor / Director 70cm	6	297	500

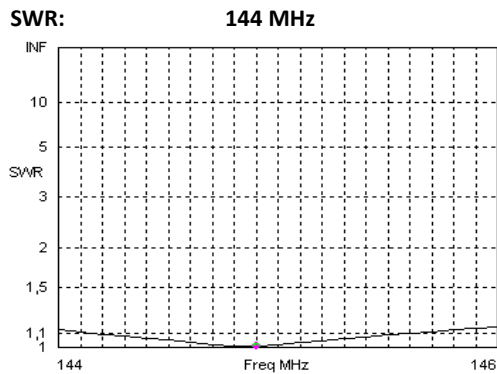
Alternative

Die Zahl in Klammern beim open sleeve Element ergeben in der Praxis eine deutlich bessere Anpassung für ca. 432 MHz.

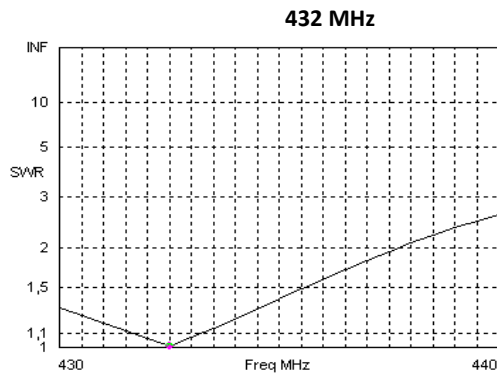
The number in brackets makes in real a better matching on 432 MHz

Das 70cm "open sleeve element" wird erst nach dem Feinabgleich am Boom befestigt!

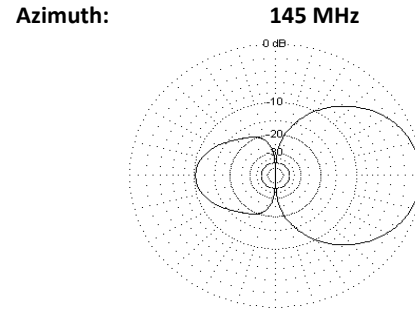
The 70cm "open sleeve element" will be attached only after the fine tuning!



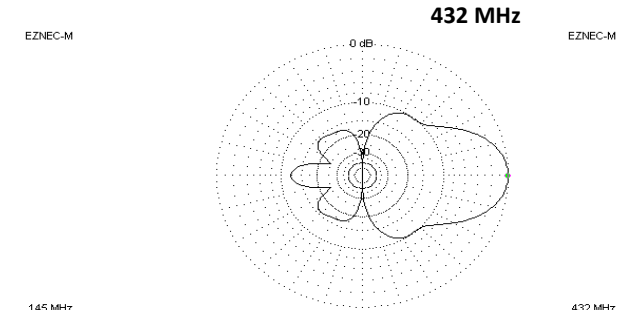
Freq 144,9 MHz  
 SWR 1,006  
 Z 50,02 + j 0,3222 ohms  
 Refl Coeff 0,003231 at 85,47 deg.



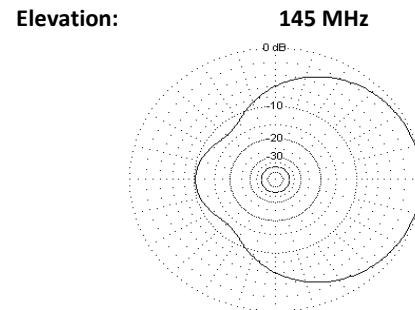
Freq 432,5 MHz  
 SWR 1,012  
 Z 50,58 + j 0,1073 ohms  
 Refl Coeff 0,005908 at 10,34 deg.



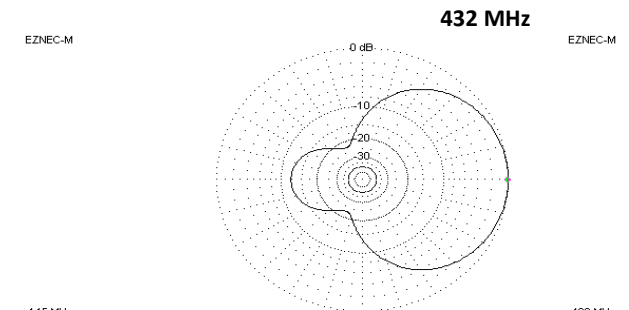
**Azimuth:**  
 145 MHz  
 Azimuth Plot  
 Elevation Angle 0,0 deg.  
 Outer Ring 4,14dBref  
 Slice Max Gain 4,14 dBref @ Az Angle = 0,0 deg.  
 Front/Back 10,31 dB  
 Beamwidth 69,8 deg.; -3dB @ 325,1, 34,9 deg.  
 Sidelobe Gain -6,17 dBref @ Az Angle = 180,0 deg.  
 Front/Sidelobe 10,31 dB



**Azimuth:**  
 432 MHz  
 Azimuth Plot  
 Elevation Angle 0,0 deg.  
 Outer Ring 6,25dBref  
 Slice Max Gain 6,25 dBref @ Az Angle = 0,0 deg.  
 Front/Back 12,24 dB  
 Beamwidth 44,0 deg.; -3dB @ 338,0, 22,0 deg.  
 Sidelobe Gain -3,8 dBref @ Az Angle = 310,0 deg.  
 Front/Sidelobe 10,05 dB



**Elevation:**  
 145 MHz  
 Elevation Plot  
 Azimuth Angle 0,0 deg.  
 Outer Ring 4,14dBref  
 Slice Max Gain 4,14 dBref @ Elev Angle = 0,0 deg.  
 Front/Back 10,31 dB  
 Beamwidth 137,0 deg.; -3dB @ 291,5, 68,5 deg.  
 Sidelobe Gain -6,17 dBref @ Elev Angle = 180,0 deg.  
 Front/Sidelobe 10,31 dB



**Elevation:**  
 432 MHz  
 Elevation Plot  
 Azimuth Angle 0,0 deg.  
 Outer Ring 6,25dBref  
 Slice Max Gain 6,25 dBref @ Elev Angle = 0,0 deg.  
 Front/Back 12,24 dB  
 Beamwidth 108,0 deg.; -3dB @ 306,0, 54,0 deg.  
 Sidelobe Gain -5,99 dBref @ Elev Angle = 180,0 deg.  
 Front/Sidelobe 12,24 dB