

Open-sleeve principles	VHF-Duoband principles	Duoband-Yagi 6m/10m	Triband-Yagi 6m/4m/2m	Duoband-Dipol 2m/70cm	2m/70cm 2+2/3 El.	2m/70cm 4+5 El.	2m/70cm 5+8 El.	Me E
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Duoband DK7ZB-Yagis 2m/70cm with 2 Elements on 2m and 2/3-Elements on 70cm and one Feedpoint

These Yagis cover the range of 144-146MHz on 2m and 430-440MHz on 70cm.

They can be used for alle modes (FM and SSB/CW). On both bands the SWR is good across the whole band.

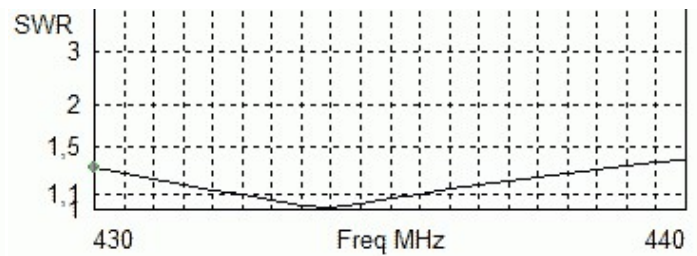
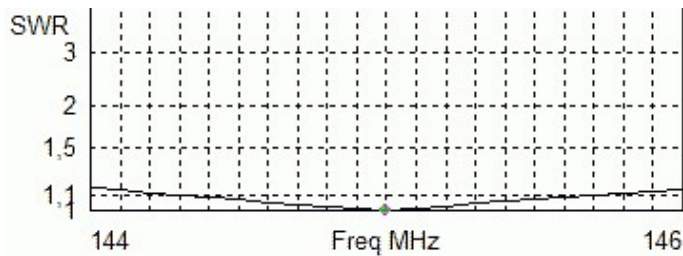


**The 2+2-
Element-
Duoband-
Yagi**

**4,12dBd on
2m**

**5,4dBd on
70cm**

The vertically polarized Yagi
built by Volker, DO1SN



Band	Gain	F/B	3dB-angle hor.	3dB-angle ver.
145MHz	4,1 dBd	10 dB	69,8°	137,2°
435MHz	5,4 dBd	11 dBd	40,7°	167,2°

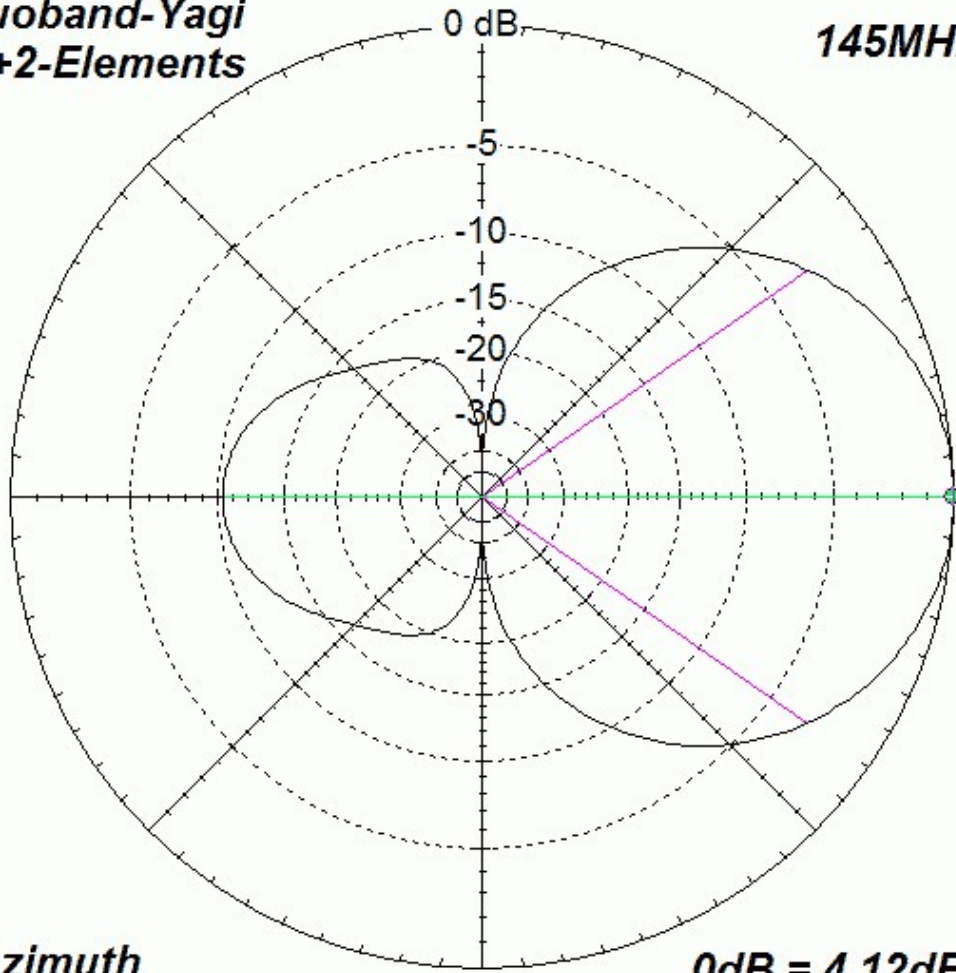
Lengths and Positions of the Elements, all 6mm Diameter

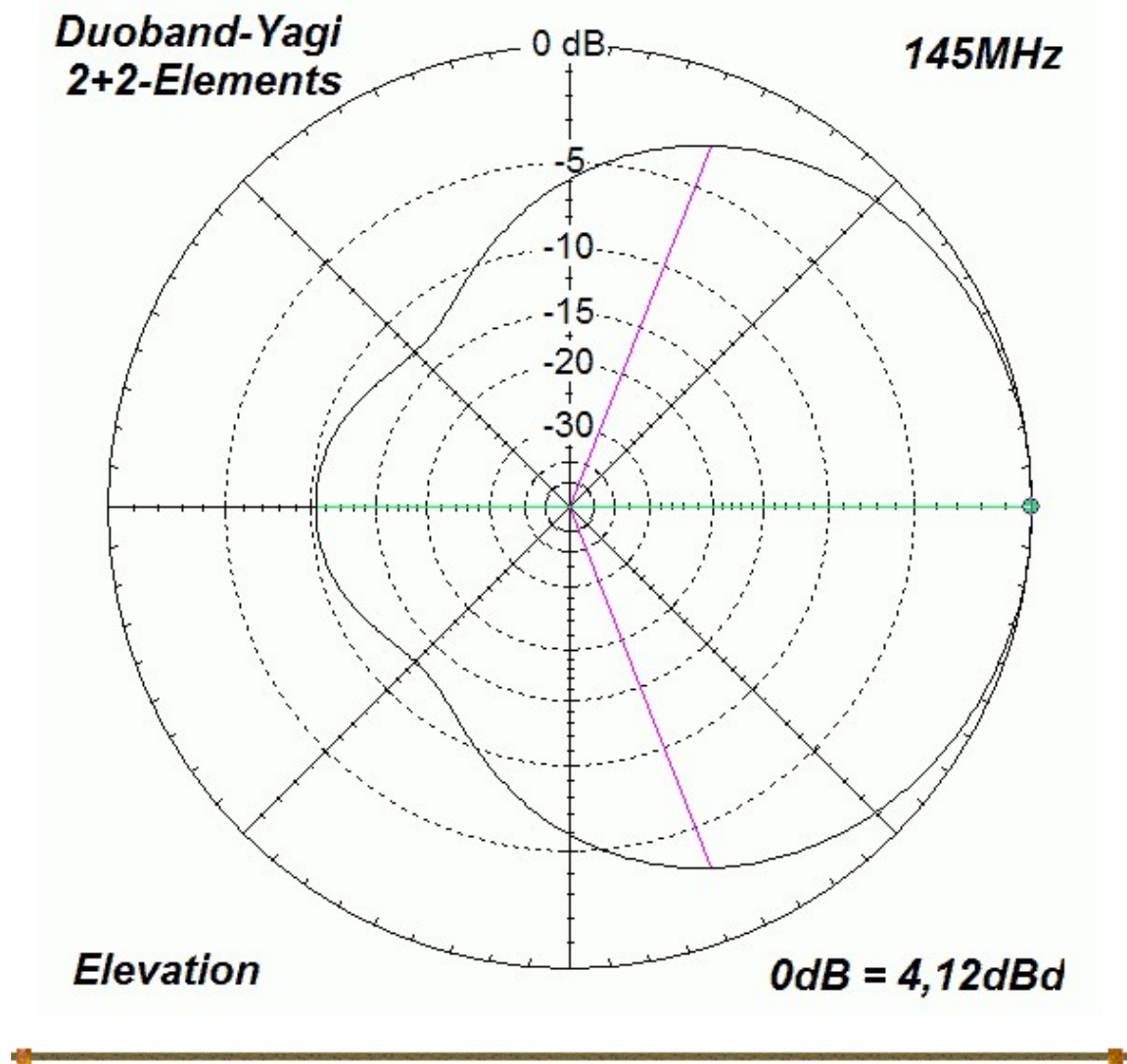
Element-Nr.	Element	Length	Position
1	Reflector 2m	1022mm	0mm
2	Reflector 70cm	322mm	230mm

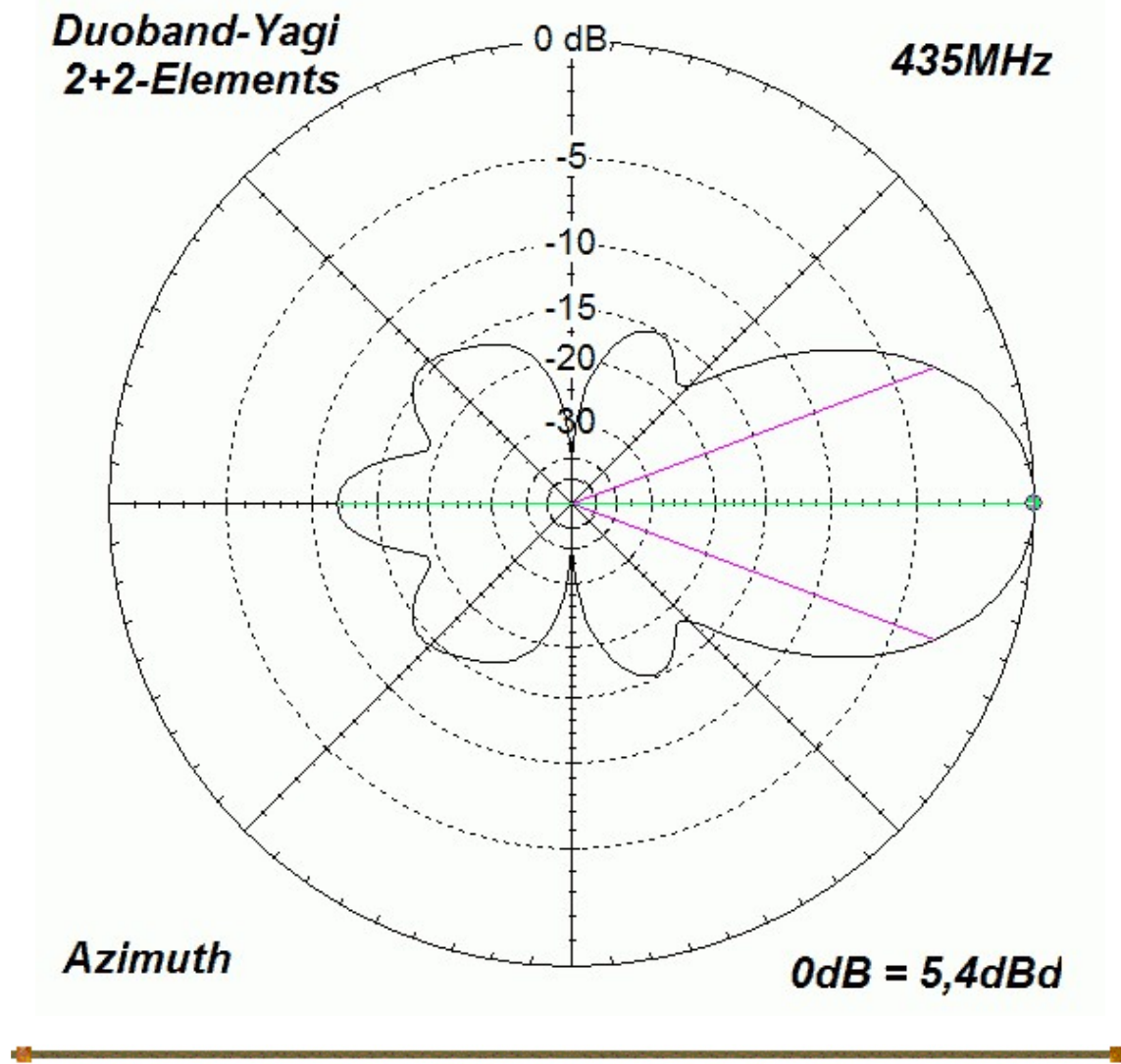
3	Radiator 2m u. 70cm	938mm	370mm
4	Open-Sleeve-Element 70cm	318mm	392mm

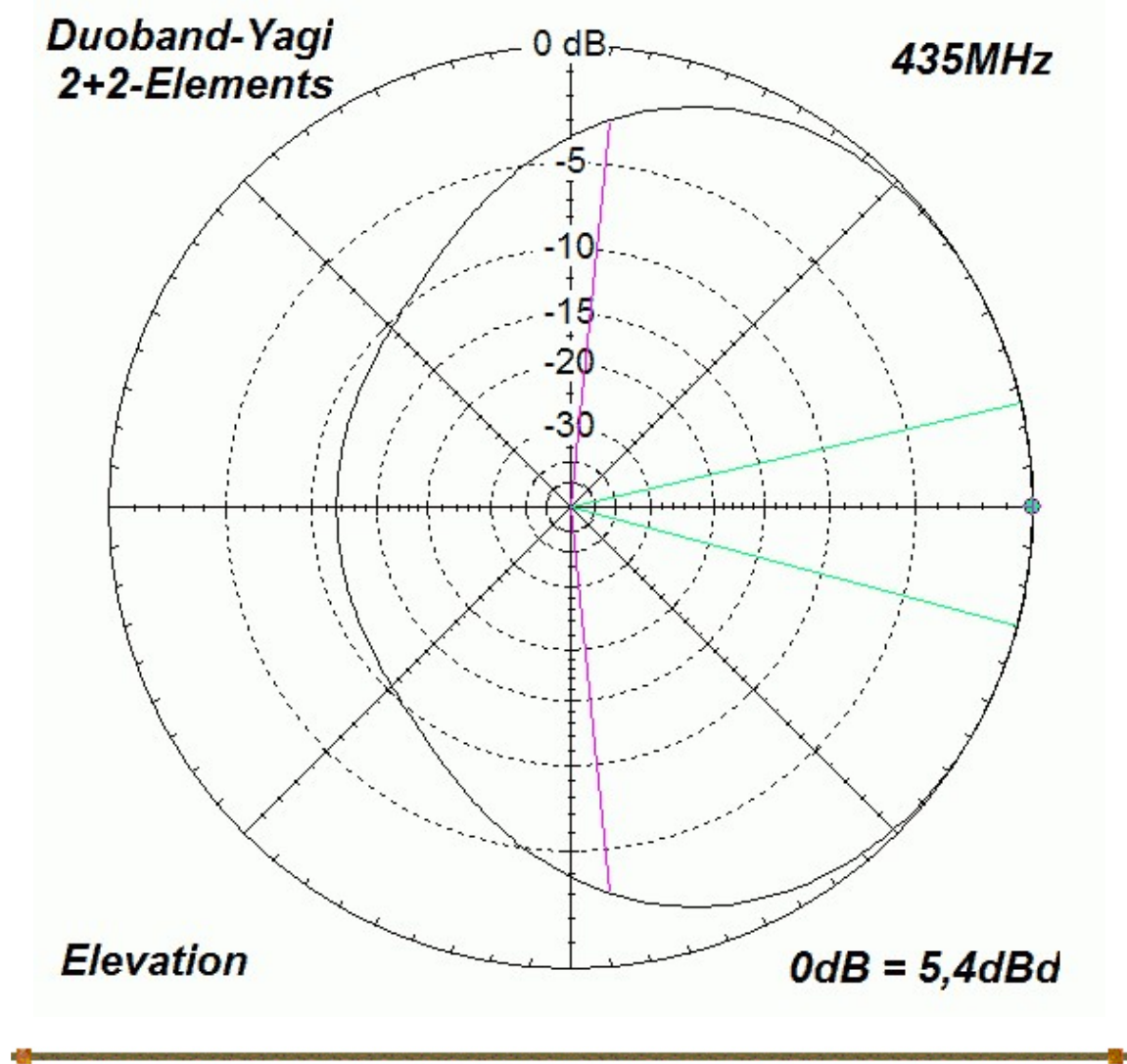
***Duoband-Yagi
2+2-Elements***

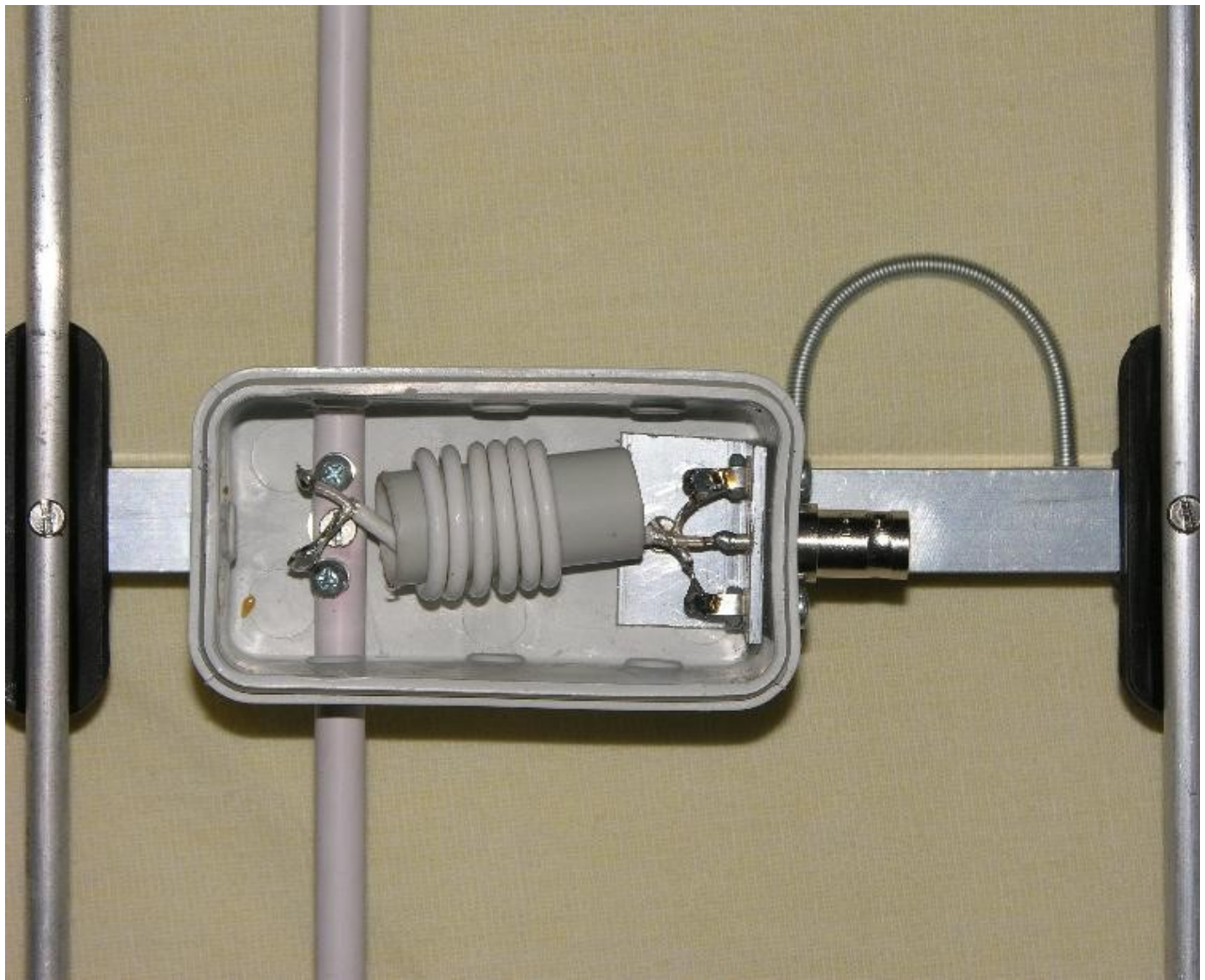
145MHz



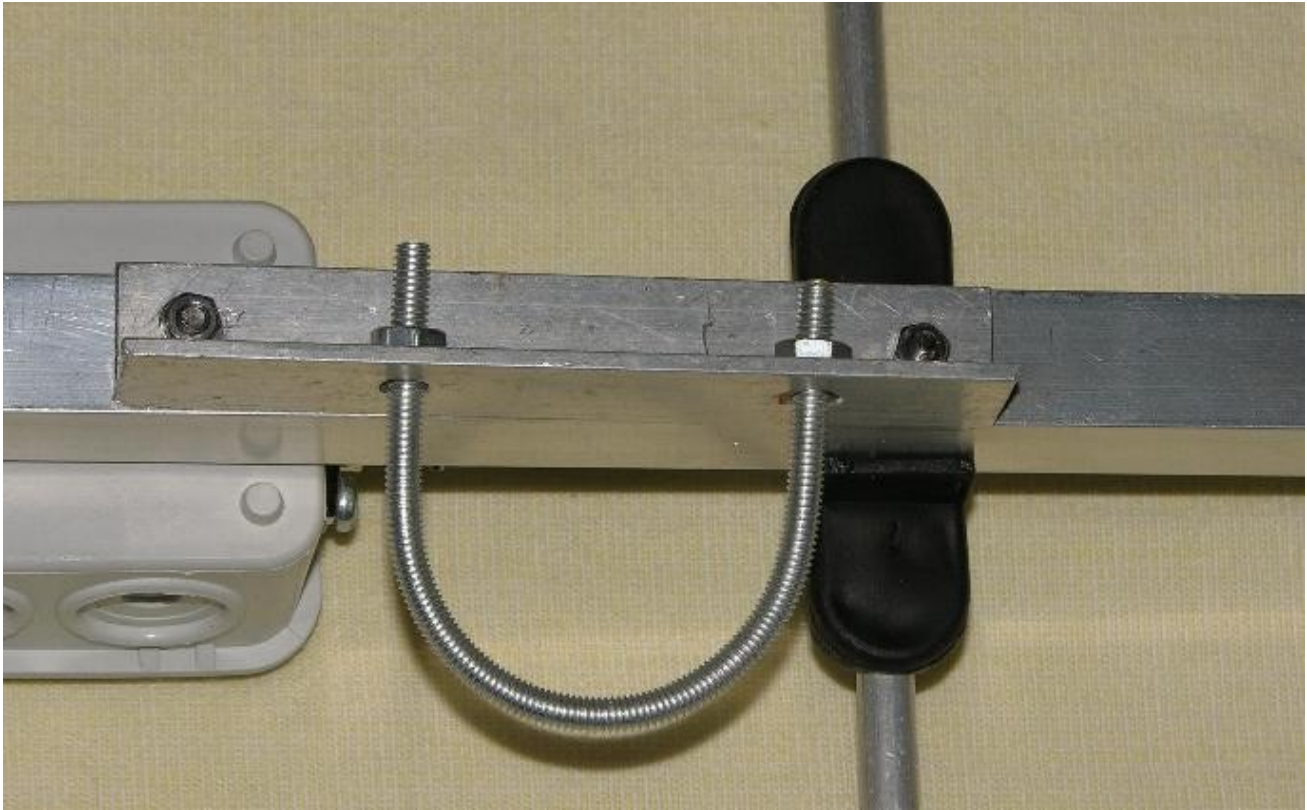








The radiator box with the 50-Ohm-choke, 40cm RG-188 (or similar) on 16-20mm PVC-tube



The homemade holder for the boom, lightweight and inexpensive

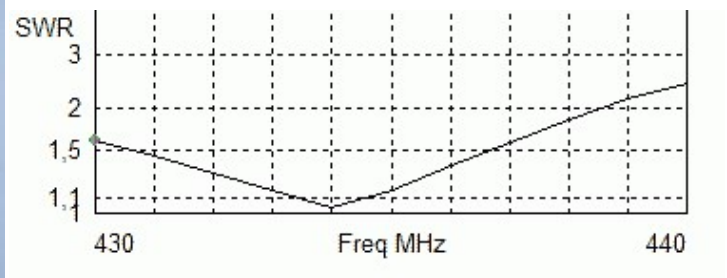
The 2+3-Element Duoband-Yagi



With an additional director the gain on 70cm can be increased to 6,2dBd. The SWR on 70cm is better in the range 430-438MHz. For receiving above 438MHz the antenna is good enough!

So we have 2 elements on 2m and 3 elements on 70cm.

The data on 2m are they same as with the 2+2-El.-Yagi.



Elements (6mm)	Length	Position
Reflector 2m	1022mm	0mm
Reflector 70cm	320mm	230mm
Radiator 2m u. 70cm	939mm	370mm
Director 1 70cm	323mm	399mm
Director 2 70cm	297mm	500mm

