

<a href="#">Open-sleeve principles</a>	<a href="#">VHF-Duoband principles</a>	<a href="#">Duoband-Yagi 6m/10m</a>	<a href="#">10m-Dipole+ 3-El.- 6 m</a>	<a href="#">Triband-Yagi 6m/4m/2m</a>	<a href="#">Duoband-Dipol 2m/70cm</a>	<a href="#">2m/70cm 2+2/3 El.</a>	<a href="#">2m/70cm 4+5 El.</a>	<a href="#">2m/70cm 5+8 El.</a>
--	--	-------------------------------------	--	---------------------------------------	---------------------------------------	-----------------------------------	---------------------------------	---------------------------------

## Duoband Yagi 2m/70cm with 4 Elements on 2 m and 5 Elements on 70 cm and one Feedpoint

**Version 1: Ultralight with 3,2-mm-Elements**

**Version 2: With 8- and 10-mm-Elements (see down), built by SQ9VPA**



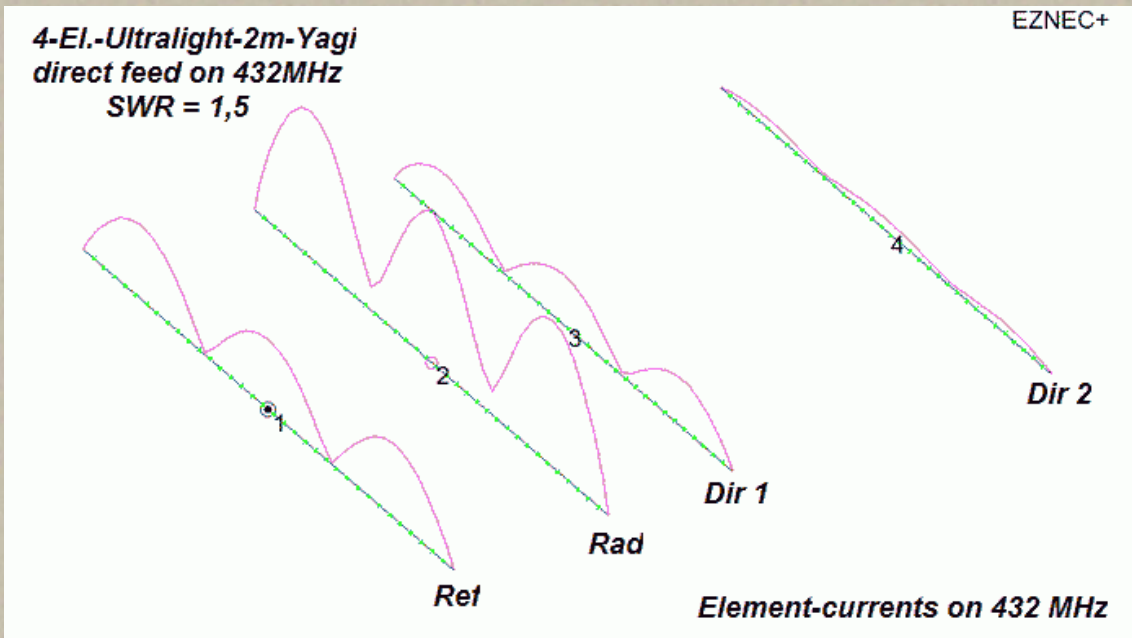
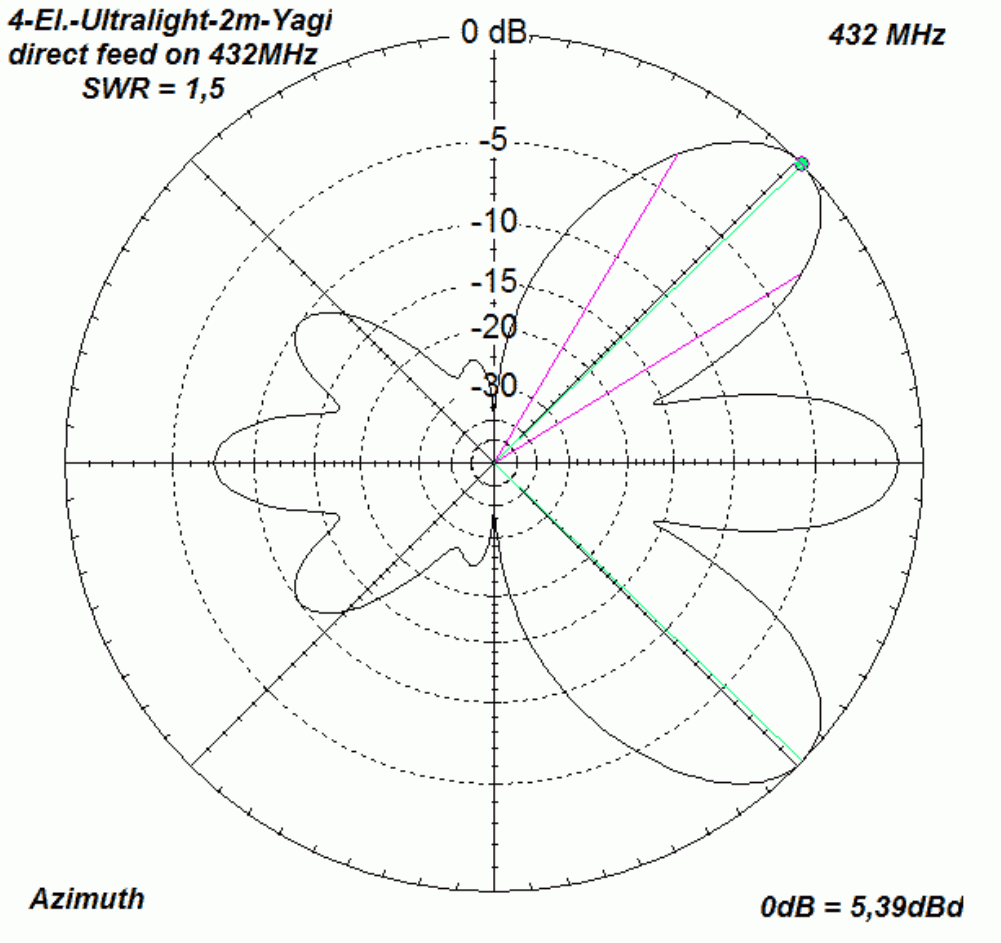
The [4-El.-Ultralight-Yagi for 2m](#) can be used on 70cm with an SWR of 1,5 without any changes. The pattern and the currents of the Yagi are shown down. The Yagi has three forward lobes (according to the three current maxima in the 3/2-lambda-radiator) with 5,39dBd - 4,35dBd -5,39dBd gain. We can use this Yagi without any changes on 2m and 70cm.



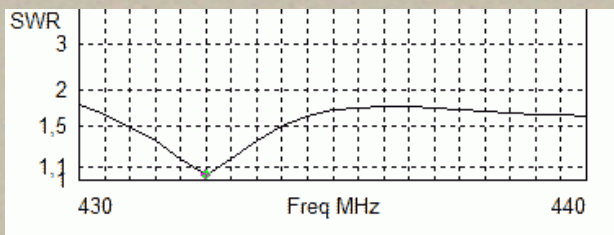
Feeding of the Duoband-Yagi with a coax-choke.

here you can see the solution by

Emmanuel, [LU5HED](#)

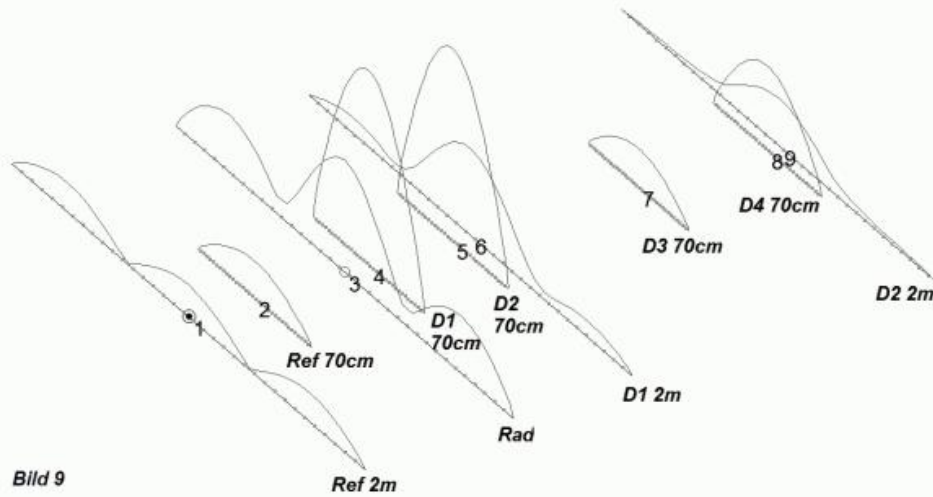


For increasing the gain and for a better pattern we add 5 elements for 432MHz.



The bandwidth is small, the Yagi is designed for the CW-/SSB-part of the 70cm-band near 432MHz.





Element currents in the  
Duoband-Yagi on  
432MHz

Gain 8dBd at 432MHz

#### Data of the Yagi on the two bands for the SSB-Frequencies

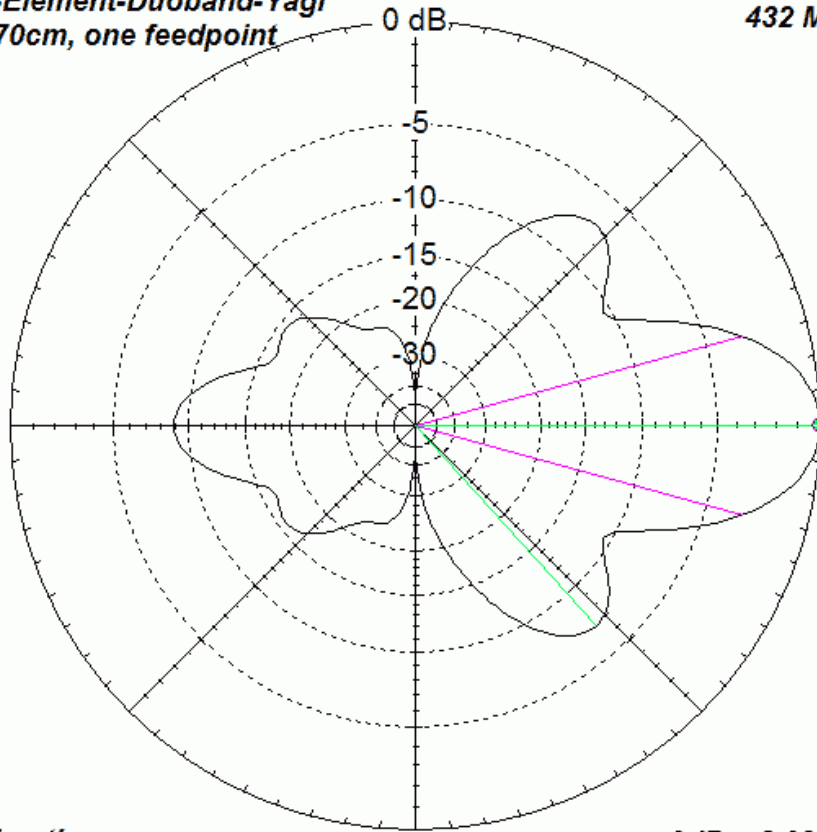
144,3 MHz	7,1dBd	11,5dB	58,0°	81,8°
	<b>Gain</b>	<b>F/B</b>	<b>3dB-angle hor.</b>	<b>3dB-angle ver.</b>
432 MHz	8,09dBd	9dB	30,4°	80,8°

All elements made with 3,2mm-Aluminium-welding rods, except the radiator (4mm)

El.-Nr.	Element	Length	Position
1	Reflector for 2m	1022 mm	0 mm
2	Reflector for 70cm	329 mm	110mm
3	Radiator 2m and 70cm	977 mm (4mm)	260 mm
4	Director 1 für 70cm	322 mm	300 mm
5	Director 2 für 70cm	320 mm	440 mm
6	Director 1 für 2m	935 mm	470 mm
7	Director 3 für 70cm	285 mm	750 mm
8	Director 4 für 70cm	297 mm	965 mm
9	Director 2 für 2m	915 mm	985 mm

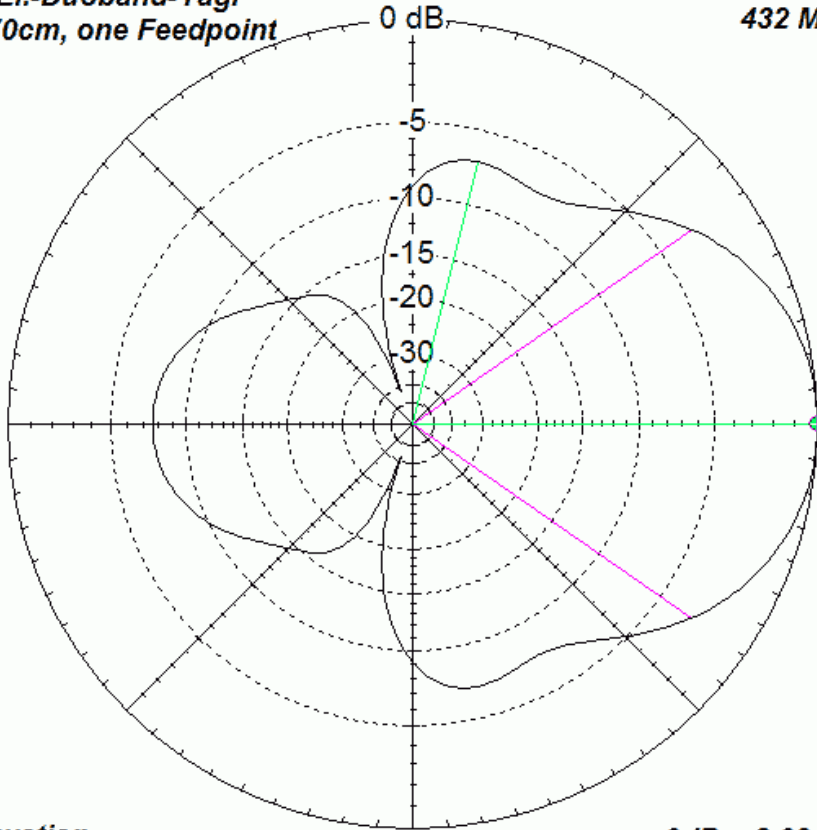
**4+5-Element-Duoband-Yagi  
2m/70cm, one feedpoint**

**432 MHz**

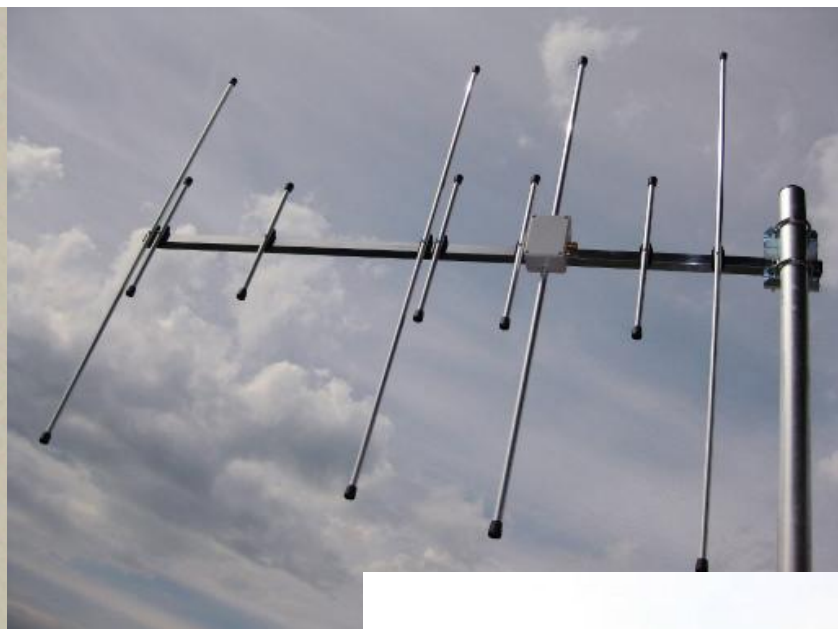


**4+5-El.-Duoband-Yagi  
2m/70cm, one Feedpoint**

**432 MHz**



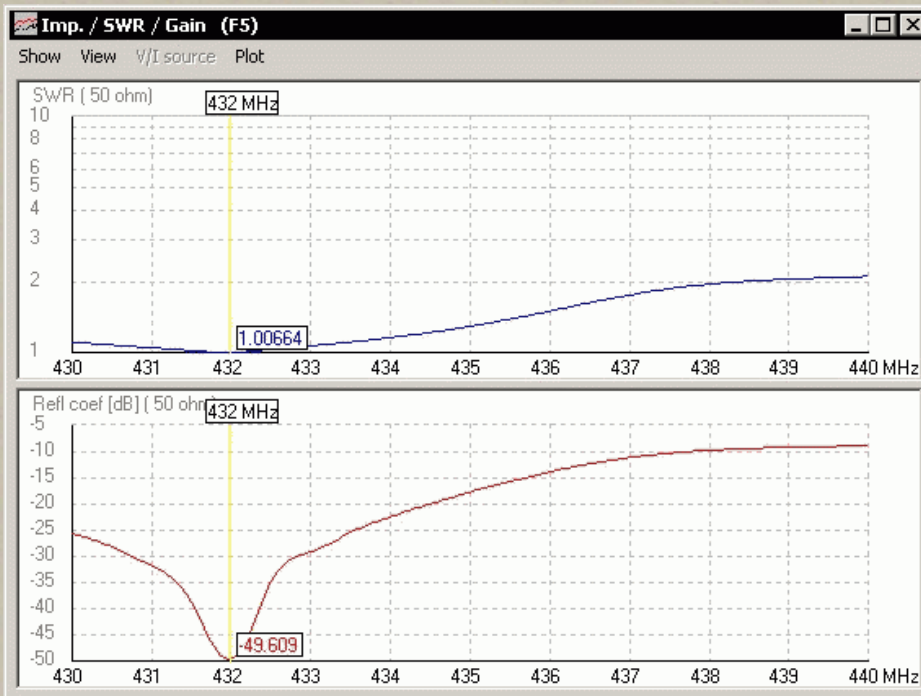
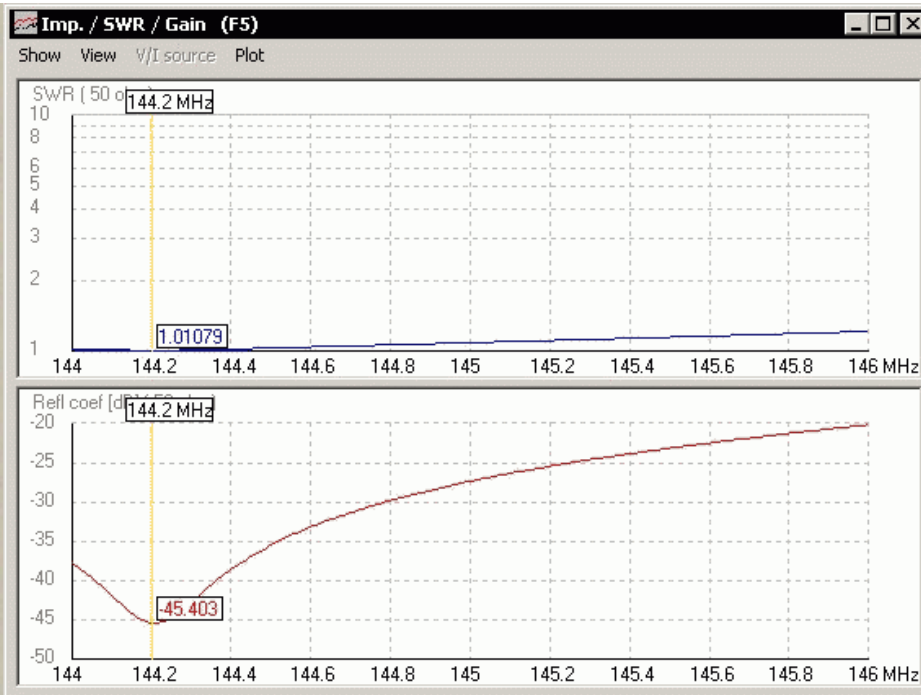
**The 4/5-El.-Yagi with 8 and 10-  
mm-Elements (redesigned by  
SQ9VPA)**



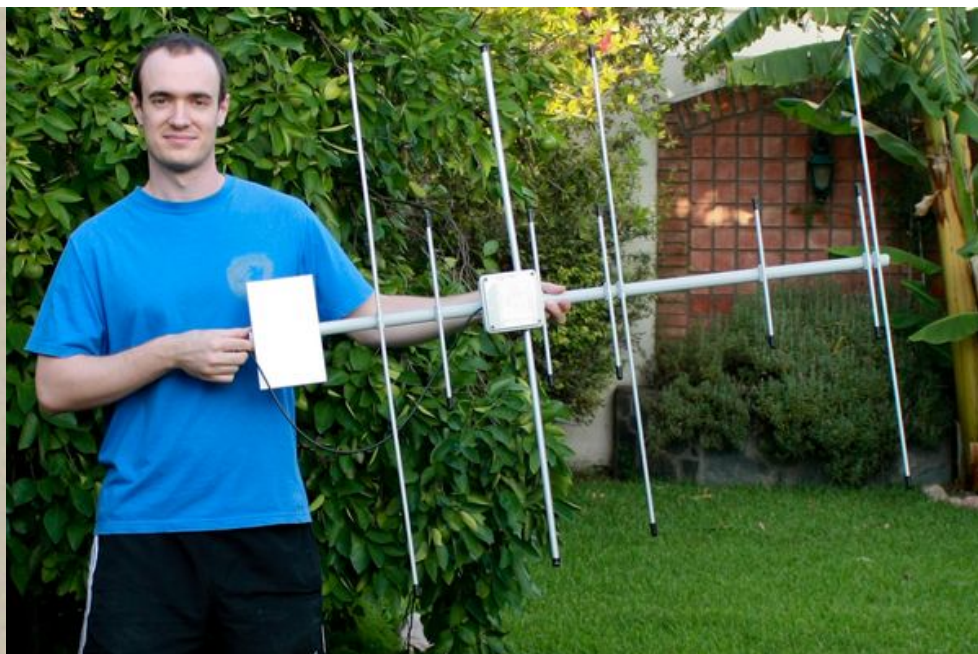
The Duoband-Yagi  
built by  
Mich, **ON8DM**



Details of the Duoband-Yagi by Bojan, **YT2SMS** Click on the thumbnails for greater picture!



The Duoband-Yagi  
built by



El.-Nr.	Element	Position	Length (8 mm)	Length (10 mm)
1	Reflector for 2m	0 mm	1013 mm	1011 mm
2	Reflector for 70cm	110mm	343 mm	332 mm
3	Radiator 2m and 70cm	260 mm	973 mm (12 mm)	973 mm (12 mm)
4	Director 1 für 70cm	308 mm	319 mm	316 mm
5	Director 2 für 70cm	440 mm	312 mm	310 mm
6	Director 1 für 2m	465 mm	919 mm	911 mm
7	Director 3 für 70cm	750 mm	267 mm	261 mm
8	Director 4 für 70cm	965 mm	283 mm	278 mm
9	Director 2 für 2m	985 mm	879 mm	870 mm