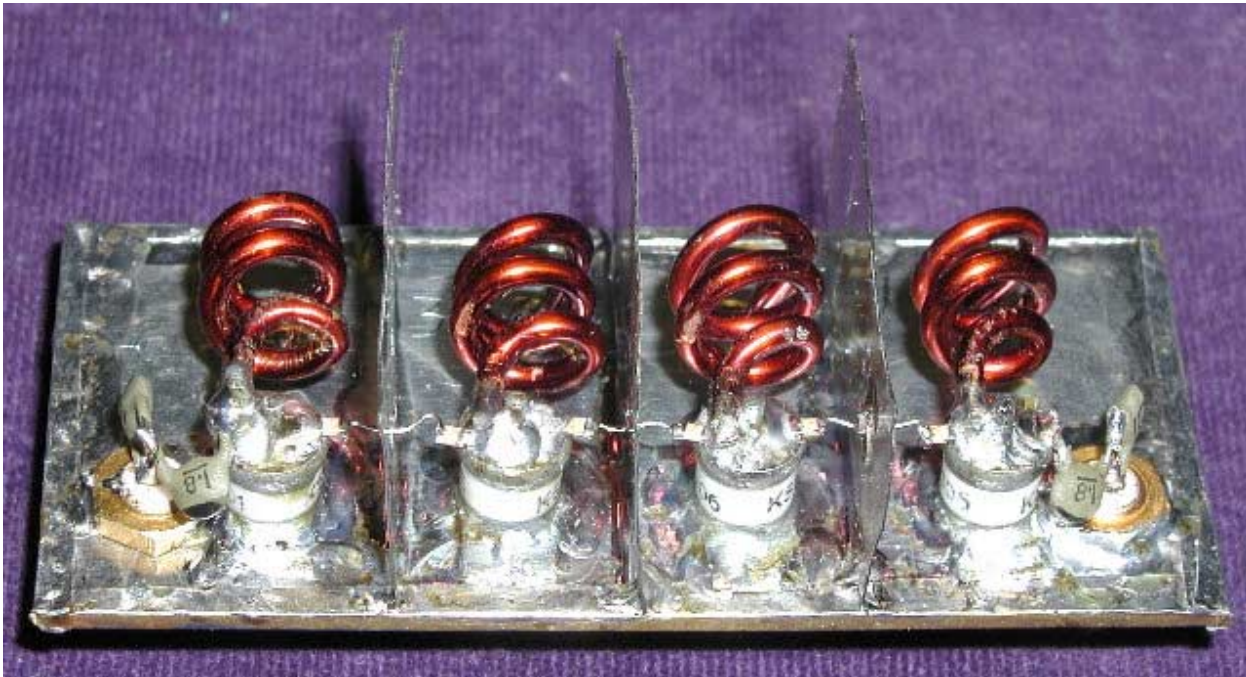
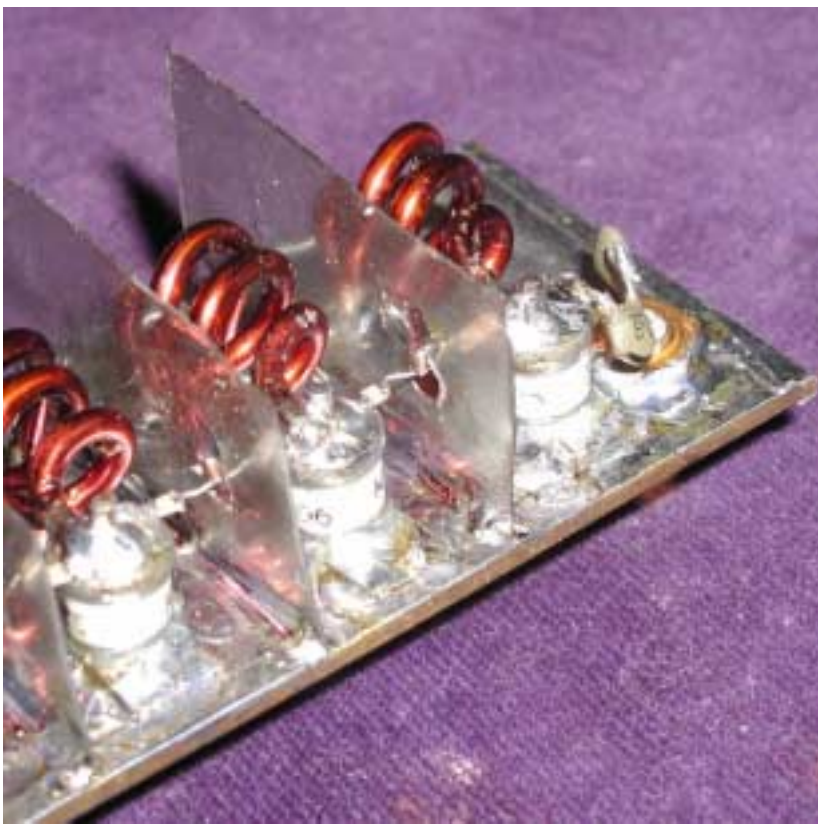


440 MHz BPF

The 430-450 MHz BPF is similar to the 2m filter - mainly scaled up in frequency. Made the inductors 7/32" ID. This produces 32 nH of loop inductance, roughly, including the inductance of the piston cap.



The piston caps are about 3 pF after tuning. I used "Y" coupled caps here between sections otherwise the values are too small:



The two series caps in each "Y" are 0.5 pF. The shunt caps are 0.5 pF at either side (section 1-2 and 3-4) and 1.5 pF in the middle (section 2-3). The end series caps are 0.9 pF total. Chip caps were not used there, as they were too fragile for the movement of the SMA center pin.

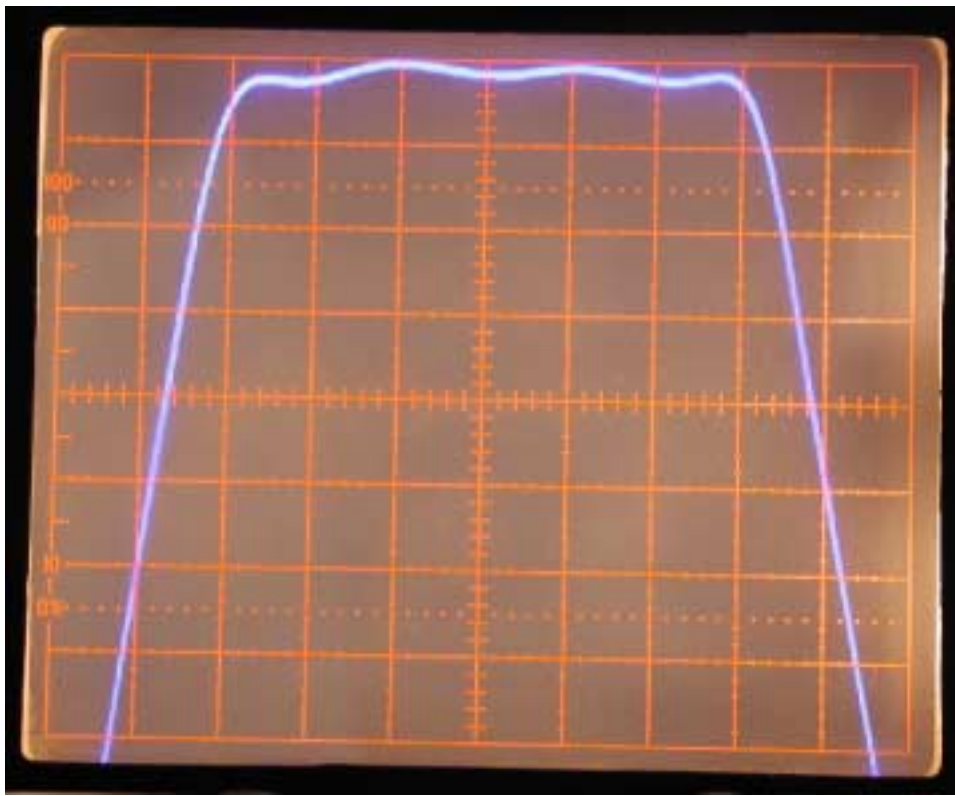




The following measurements were made with the bottom shield installed - i.e. totally shielded.

The attenuation (IL) at 440 MHz is 3.1 dB.

Measured 425-455 MHz, 3 MHz/div horz, 440 MHz center, 2 dB/div vert:



Some spot relative attenuations using the sig gen & SA:

Freq	dB Meas
----	----
500	64
490	60
480	55
470	46
460	32
440	0
420	34
410	52
400	64
390	74