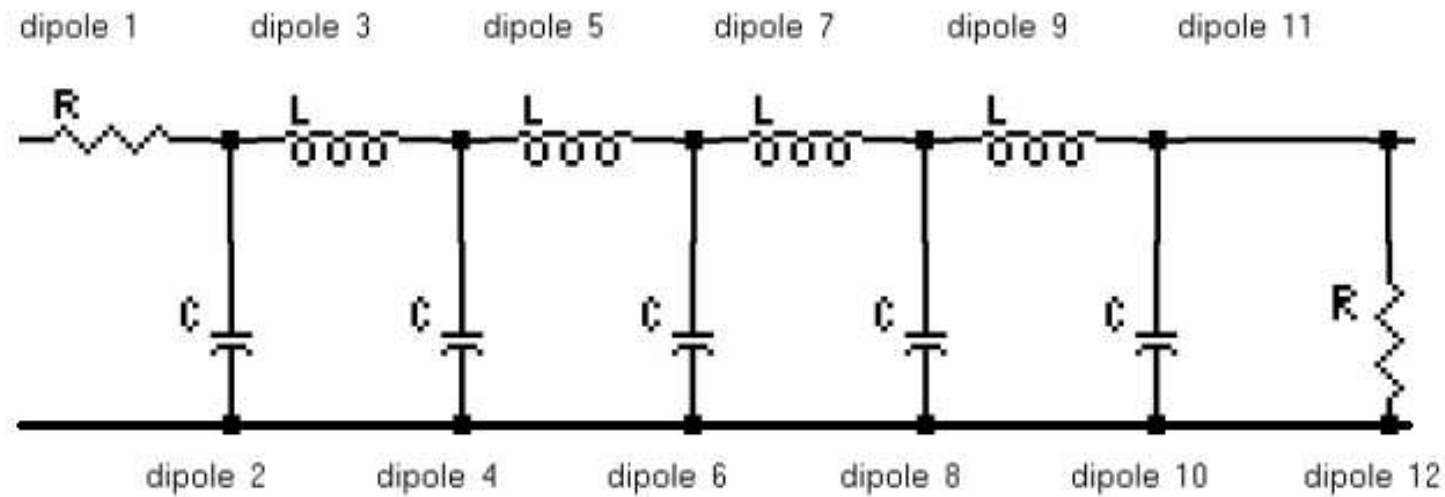


Preselektor HSDR-4512  
09.03.2008 Werner, DL7MWN



Preselektor HSDR-4512  
 09.03.2008 Werner, DL7MWN

DIPOLE 1      DIPOLE 12  
 R.1=50,      R.12=50,

DIPOLE 2  
 C.2=,00221uF

DIPOLE 3  
 L.3=15,911uHy

DIPOLE 4  
 C.4=,009751uF

DIPOLE 5  
 L.5=29,903uHy

DIPOLE 6  
 C.6=,012729uF

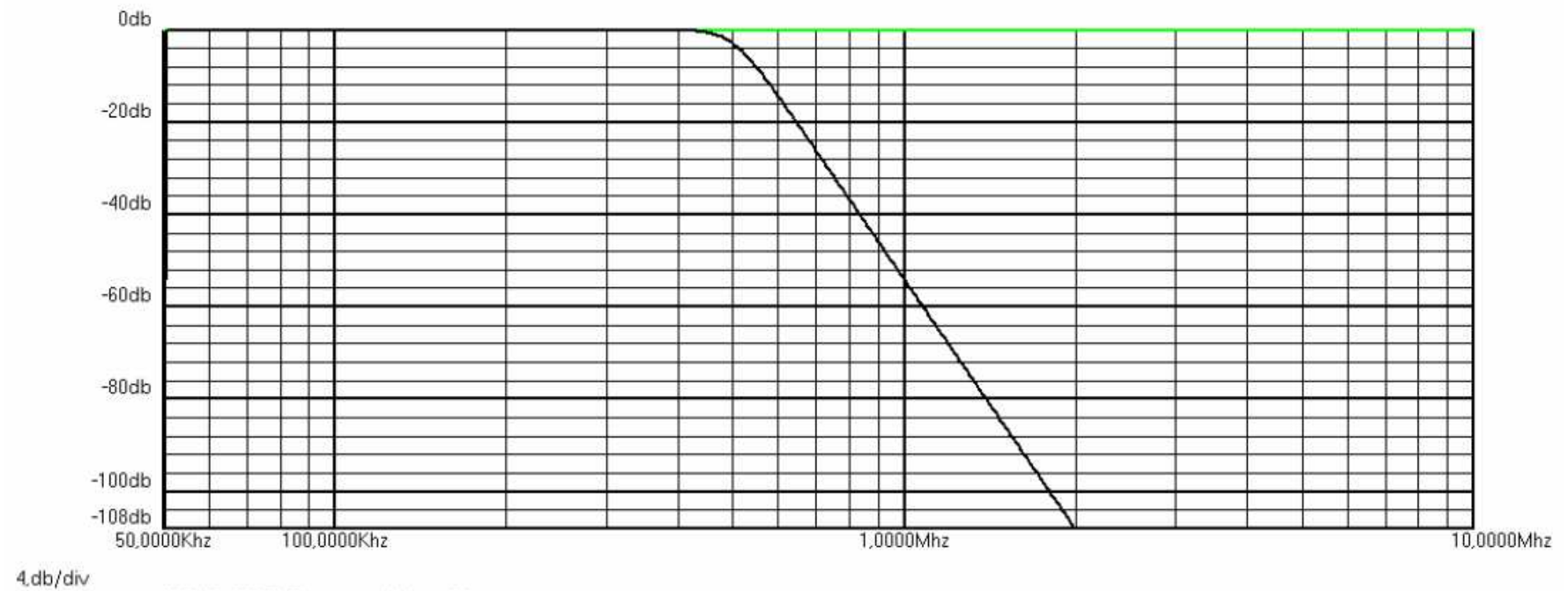
DIPOLE 7  
 L.7=29,903uHy

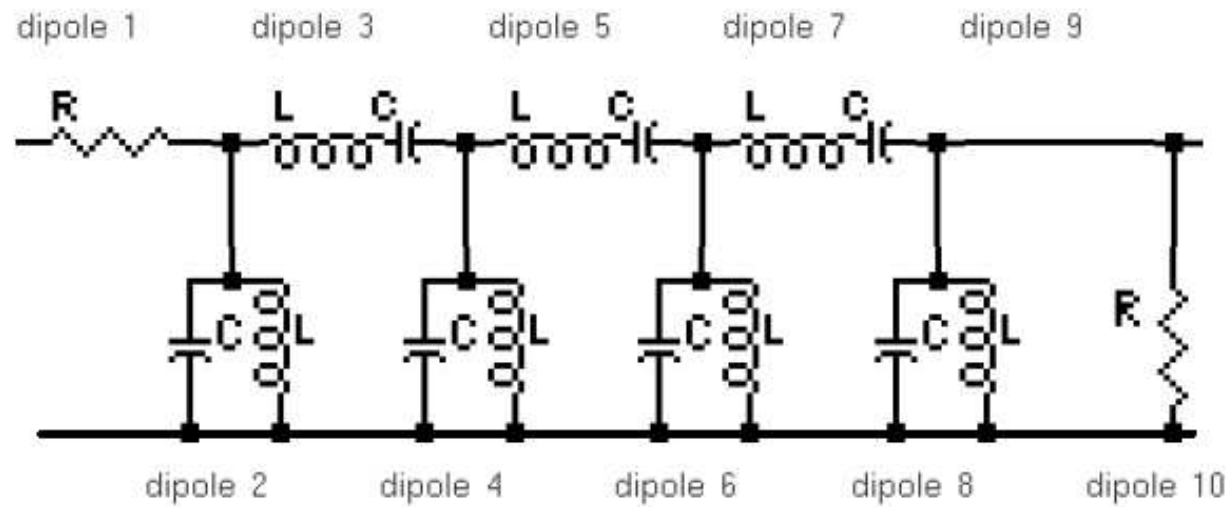
DIPOLE 8  
 C.8=,009751uF

DIPOLE 9  
 L.9=15,911uHy

DIPOLE 10  
 C.10=,00221uF

**Tiefpass                      0,5 MHz**  
**Butterworth                9te Ordnung**  
**F1 = 0,5 MHz      F2 = 2,0 MHz**





Preselektor HSDR-4512  
 09.03.2008 Werner, DL7MWN

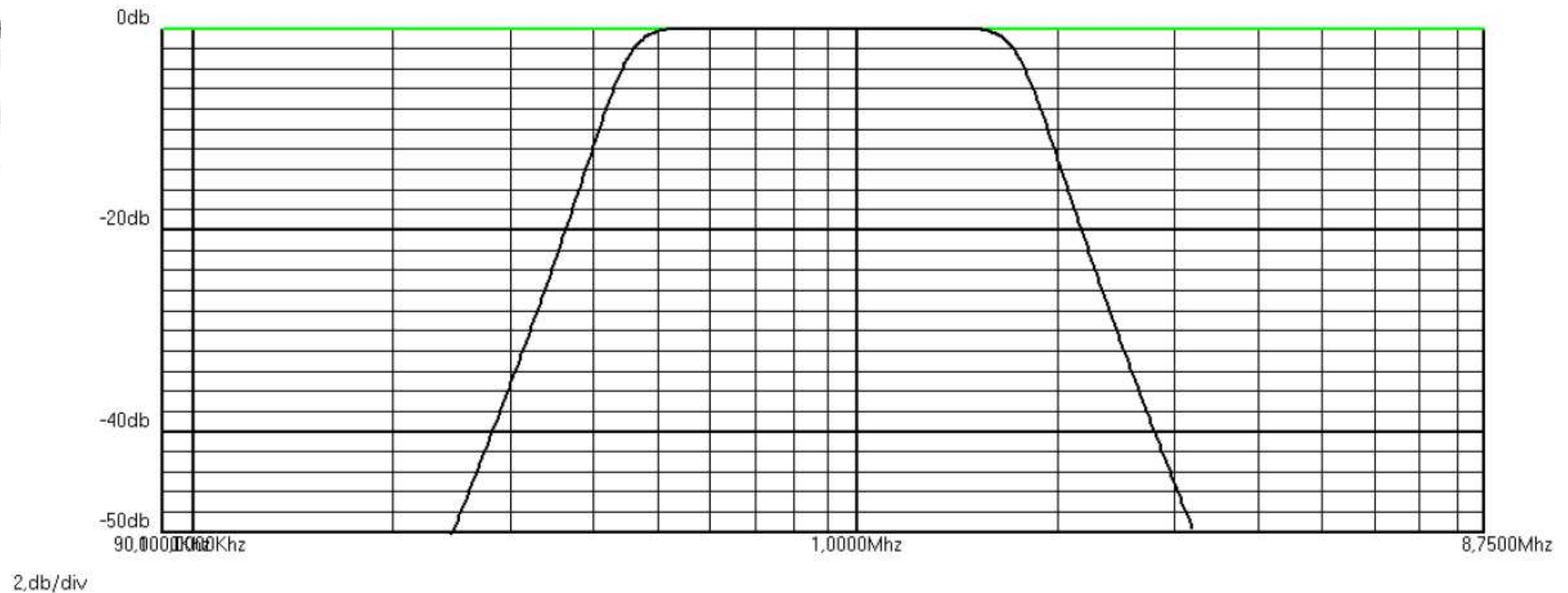
- |   |  |
|---|--|
| DIPOLE 1<br>R 1=50,   | L 6=7,293uHy<br>F(L6C6)=<br>887,411967KHz                              |
| DIPOLE 2<br>C 2=,001089uF<br>L 2=29,528uHy<br>F(L2C2)=<br>887,411967KHz | DIPOLE 7<br>C 7=,004215uF<br>L 7=7,631uHy<br>F(L7C7)=<br>887,411967KHz |
| DIPOLE 3<br>C 3=,004215uF<br>L 3=7,631uHy<br>F(L3C3)=<br>887,411967KHz  | DIPOLE 8<br>C 8=,001089<br>L 8=29,528u<br>F(L8C8)=<br>887,411967       |
| DIPOLE 4<br>C 4=,004411uF<br>L 4=7,293uHy<br>F(L4C4)=<br>887,411967KHz  | DIPOLE 10<br>R 10=50,  |
| DIPOLE 5<br>C 5=,002628uF<br>L 5=12,239uHy<br>F(L5C5)=<br>887,411967KHz |  |
| DIPOLE 6<br>C 6=,004411uF   |  |

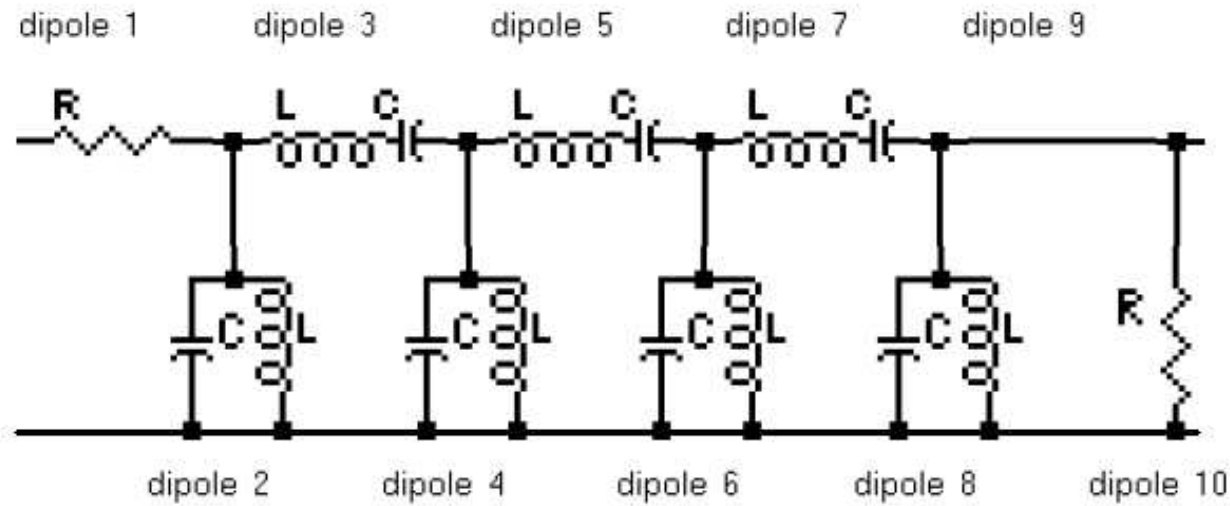
**Bandfilter B 0,5 MHz bis 1,7 MHz**

**Butterworth                      7te Ordnung**

**CF = 1,1 MHz**

**BW = 1,3 MHz**





Preselektor HSDR-4512  
 28.12.2007 Werner, DL7MWN

DIPOLE 1  
R 1=50,  
DIPOLE 10  
R 10=50,

DIPOLE 2  
C 2=.001573uF  
L 2=3,826uHy

DIPOLE 3  
C 3=546,20602pF  
L 3=11,022uHy

DIPOLE 4  
C 4=.006371uF  
L 4=.944966uHy

DIPOLE 5  
C 5=340,55388pF  
L 5=17,678uHy

DIPOLE 6  
C 6=.006371uF  
L 6=.944966uHy

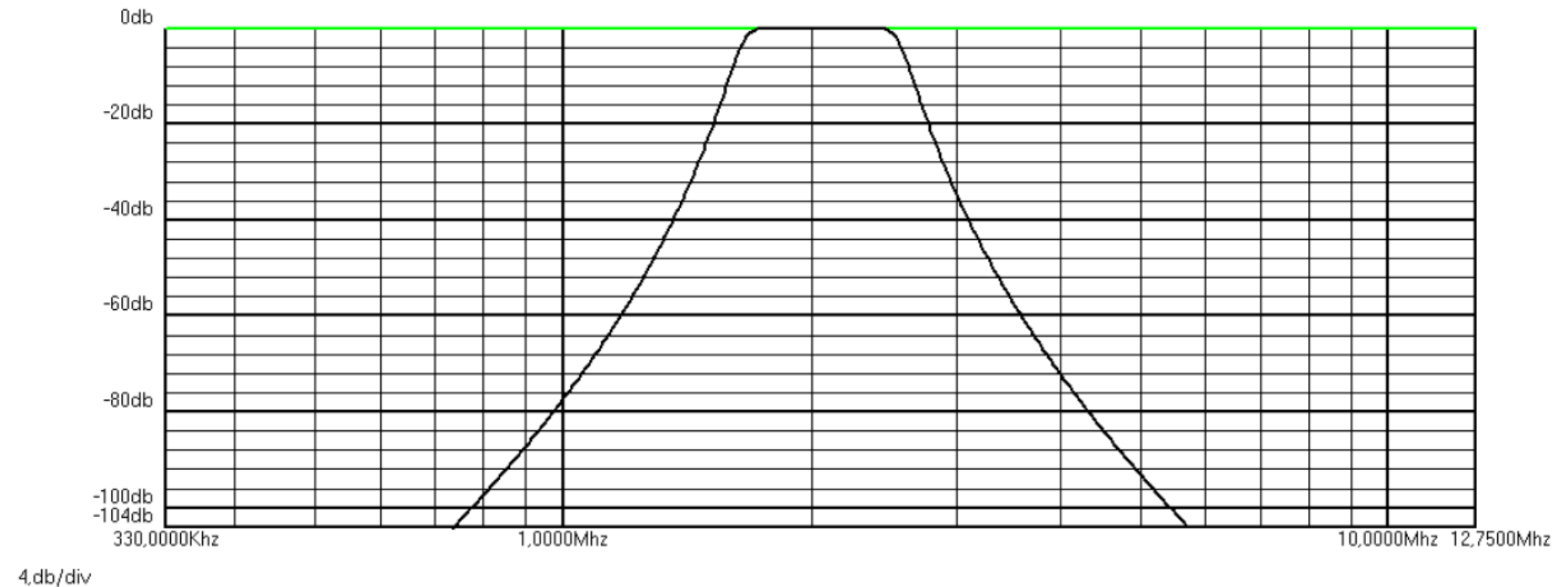
DIPOLE 7  
C 7=546,20602pF  
L 7=11,022uHy

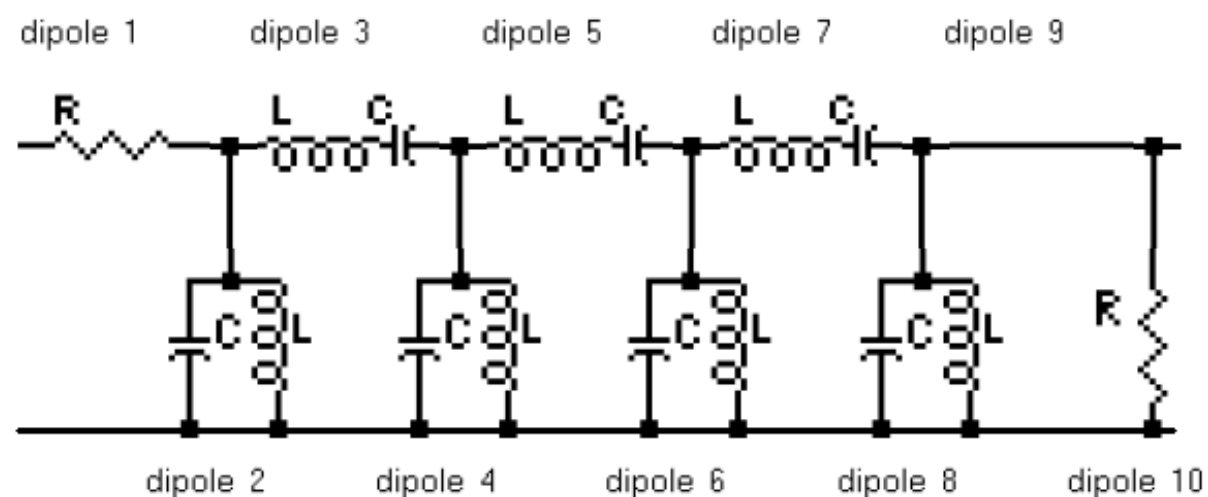
DIPOLE 8  
C 8=.001573uF  
L 8=3,826uHy

**Bandfilter C 1,7 MHz bis 2,5 MHz**

**Butterworth                      7te Ordnung**

**CF = 2,1 MHz                      BW = 0,9 MHz**





**Preselektor HSDR-4512**  
 28.12.2007 Werner, DL7MWN

DIPOLE 1      DIPOLE 10  
 R 1=50,      R 10=50,

DIPOLE 2  
 C 2=885,08238pF  
 L 2=2,884uHy

DIPOLE 3  
 C 3=411,75319pF  
 L 3=6,2uHy

DIPOLE 4  
 C 4=,003584uF  
 L 4=,712355uHy

DIPOLE 5  
 C 5=256,72391pF  
 L 5=9,944uHy

DIPOLE 6  
 C 6=,003584uF  
 L 6=,712355uHy

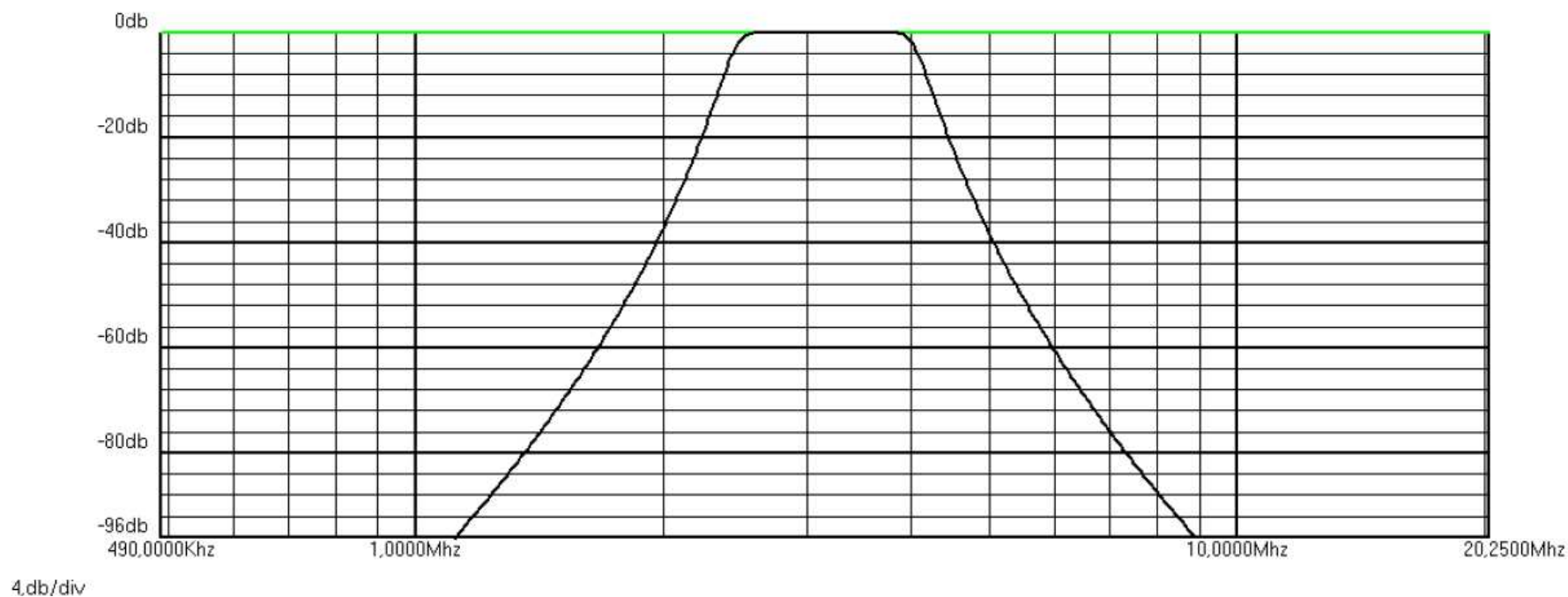
DIPOLE 7  
 C 7=411,75319pF  
 L 7=6,2uHy

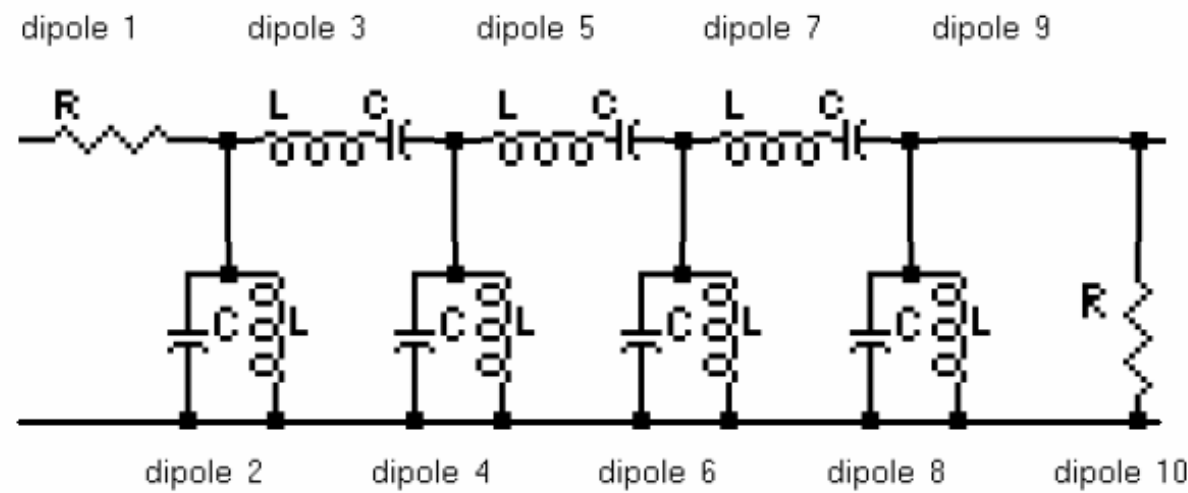
DIPOLE 8  
 C 8=885,08238pF  
 L 8=2,884uHy

**Bandfilter D 2,5 MHz bis 4,0 MHz**

**Butterworth                      7te Ordnung**

**CF = 3,25 MHz      BW = 1,6 MHz**





**Preselektor HSDR-4512**  
 28.12.2007 Werner, DL7MWN

DIPOLE 1      DIPOLE 10  
 R 1=50,      R 10=50,

DIPOLE 2  
 C 2=429,13085pF  
 L 2=2,061uHy

DIPOLE 3  
 C 3=294,25031pF  
 L 3=3,006uHy

DIPOLE 4  
 C 4=,001738uF  
 L 4=,509069uHy

DIPOLE 5  
 C 5=183,46207pF  
 L 5=4,821uHy

DIPOLE 6  
 C 6=,001738uF  
 L 6=,509069uHy

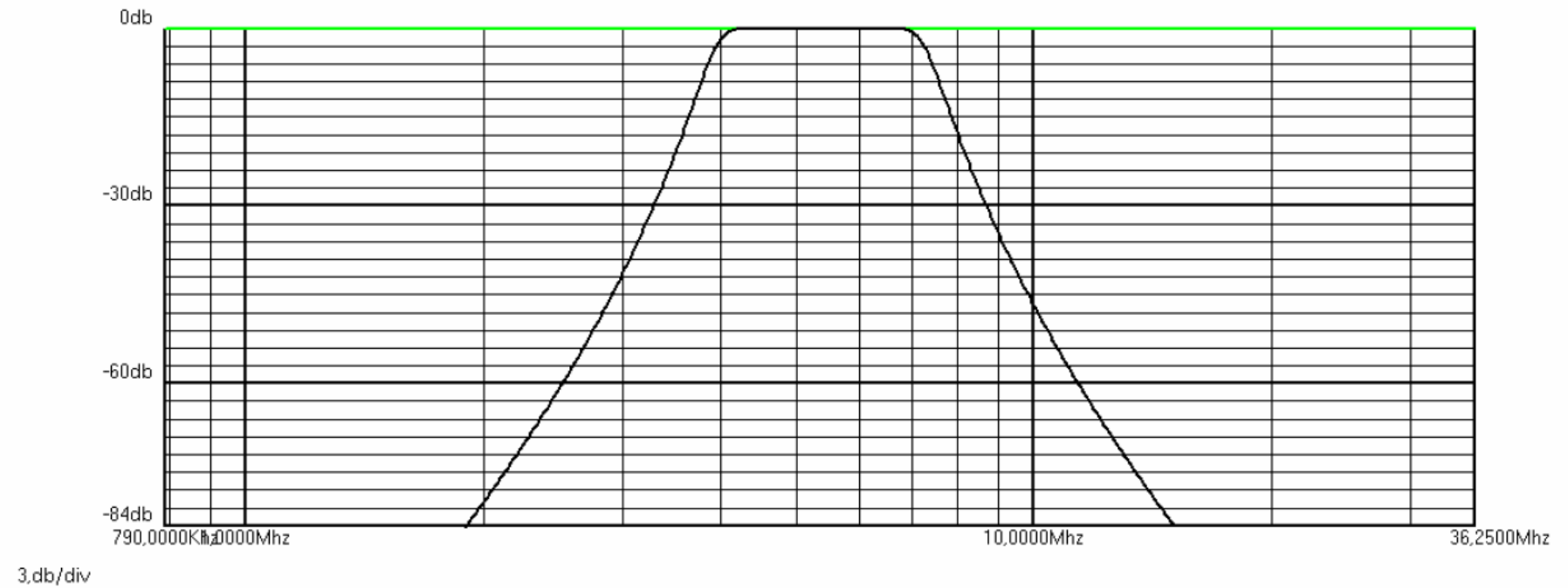
DIPOLE 7  
 C 7=294,25031pF  
 L 7=3,006uHy

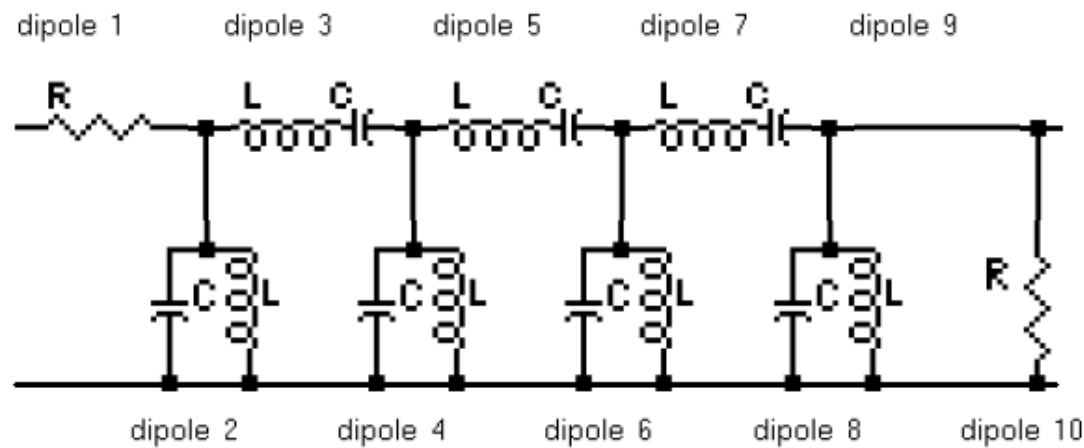
DIPOLE 8  
 C 8=429,13085pF  
 L 8=2,061uHy

**Bandfilter E 4,0 MHz bis 7,2 MHz**

**Butterworth                      7te Ordnung**

**CF = 5,6 MHz                      BW = 3,3 MHz**





Preselektor HSDR-4512  
07.03.2008 Werner, DL7MWN

DIPOLE 1  
R 1=50,  
DIPOLE 2  
C 2=363,11072pF  
L 2=,882943uHy  
F(L2C2)=  
8,888616MHz  
DIPOLE 3  
C 3=126,04754pF  
L 3=2,544uHy  
F(L3C3)=  
8,888616MHz  
DIPOLE 4  
C 4=,00147uF  
L 4=,218069uHy  
F(L4C4)=  
8,888616MHz  
DIPOLE 5  
C 5=78,58936pF  
L 5=4,08uHy  
F(L5C5)=  
8,888616MHz  
DIPOLE 6  
C 6=,00147uF  
L 6=,218069uHy  
F(L6C6)=  
8,888616MHz

DIPOLE 7  
C 7=126,04754pF  
L 7=2,544uHy  
F(L7C7)=  
8,888616MHz  
DIPOLE 8  
C 8=363,11072pF  
L 8=,882943uHy  
F(L8C8)=  
8,888616MHz  
DIPOLE 10  
R 10=50,

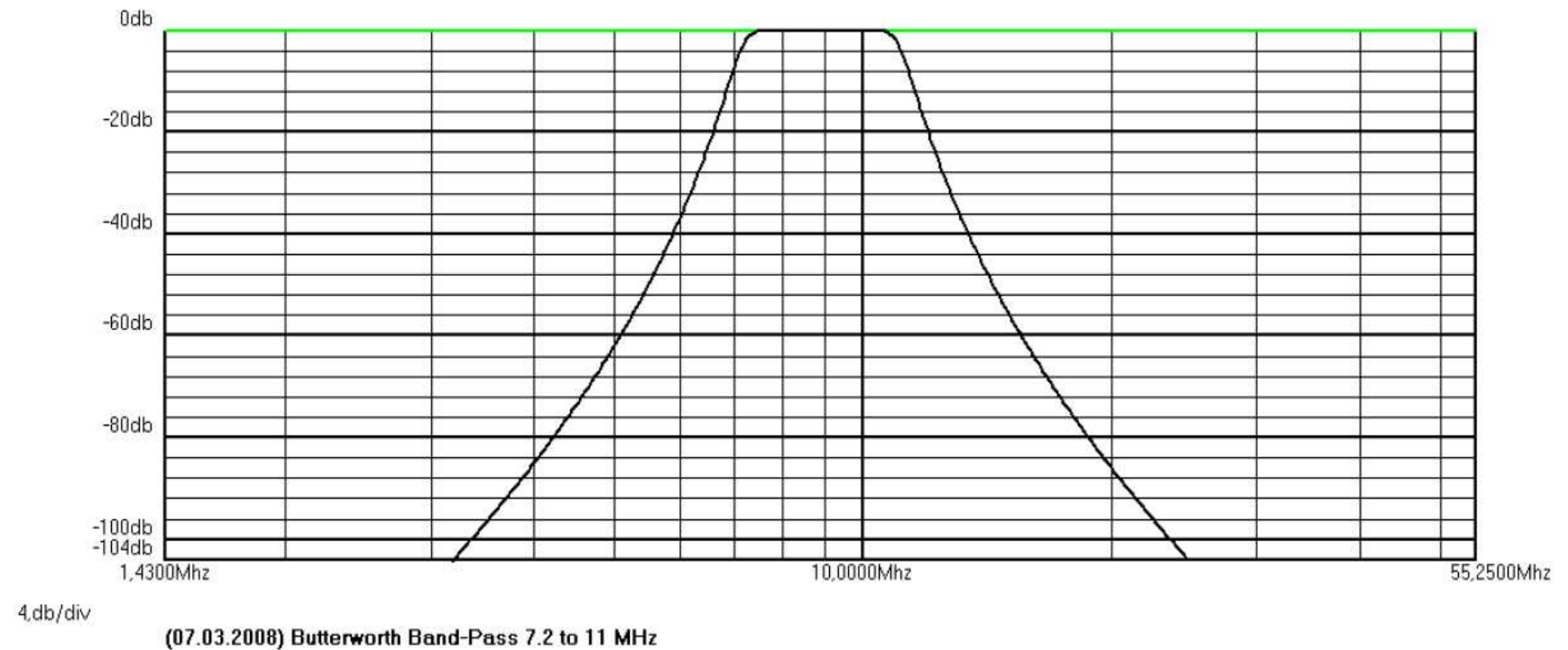
**Bandpass F 7,2 MHz bis 11,0 MHz**

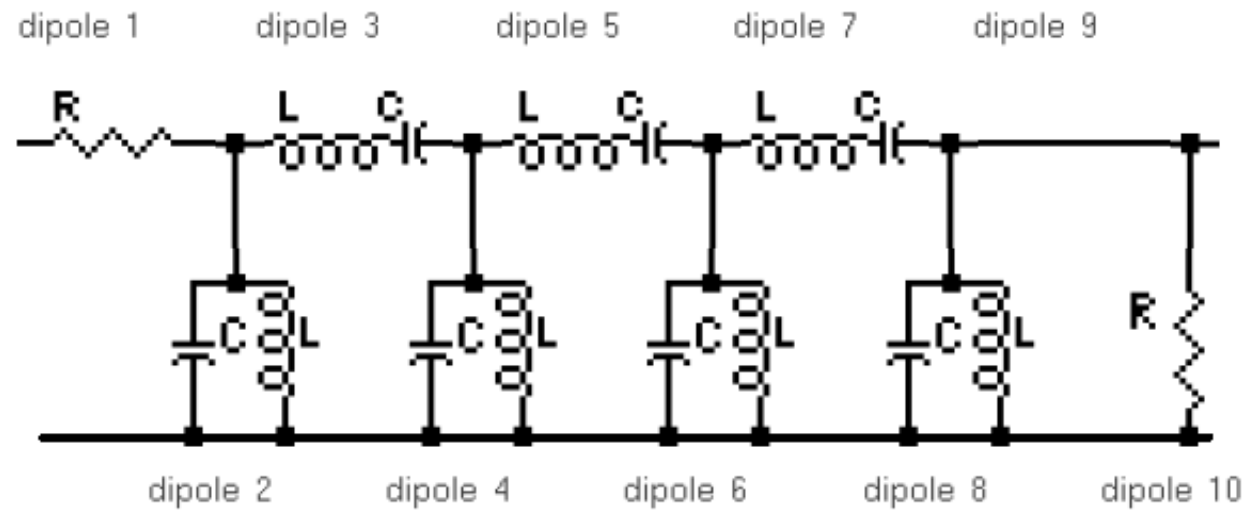
**Butterworth**

**7te Ordnung**

**CF = 9,1 MHz**

**BW = 3,9 MHz**





Preselektor HSDR-4512  
 09.03.2008 Werner, DL7MWN

- |   |   |
|---|---|
| DIPOLE 1<br>R 1=50,   | L 6=,161222uHy<br>F(L6C6)=<br>14,045996MHz                                |
| DIPOLE 2<br>C 2=196,68497pF<br>L 2=,652776uHy<br>F(L2C2)=<br>14,045996MHz | DIPOLE 7<br>C 7=93,18919pF<br>L 7=1,378uHy<br>F(L7C7)=<br>14,045996MHz    |
| DIPOLE 3<br>C 3=93,18919pF<br>L 3=1,378uHy<br>F(L3C3)=<br>14,045996MHz    | DIPOLE 8<br>C 8=196,68497pF<br>L 8=,652776uHy<br>F(L8C8)=<br>14,045996MHz |
| DIPOLE 4<br>C 4=796,3612pF<br>L 4=,161222uHy<br>F(L4C4)=<br>14,045996MHz  | DIPOLE 10<br>R 10=50,   |
| DIPOLE 5<br>C 5=58,10251pF<br>L 5=2,21uHy<br>F(L5C5)=<br>14,045996MHz     |   |
| DIPOLE 6<br>C 6=796,3612pF  |   |

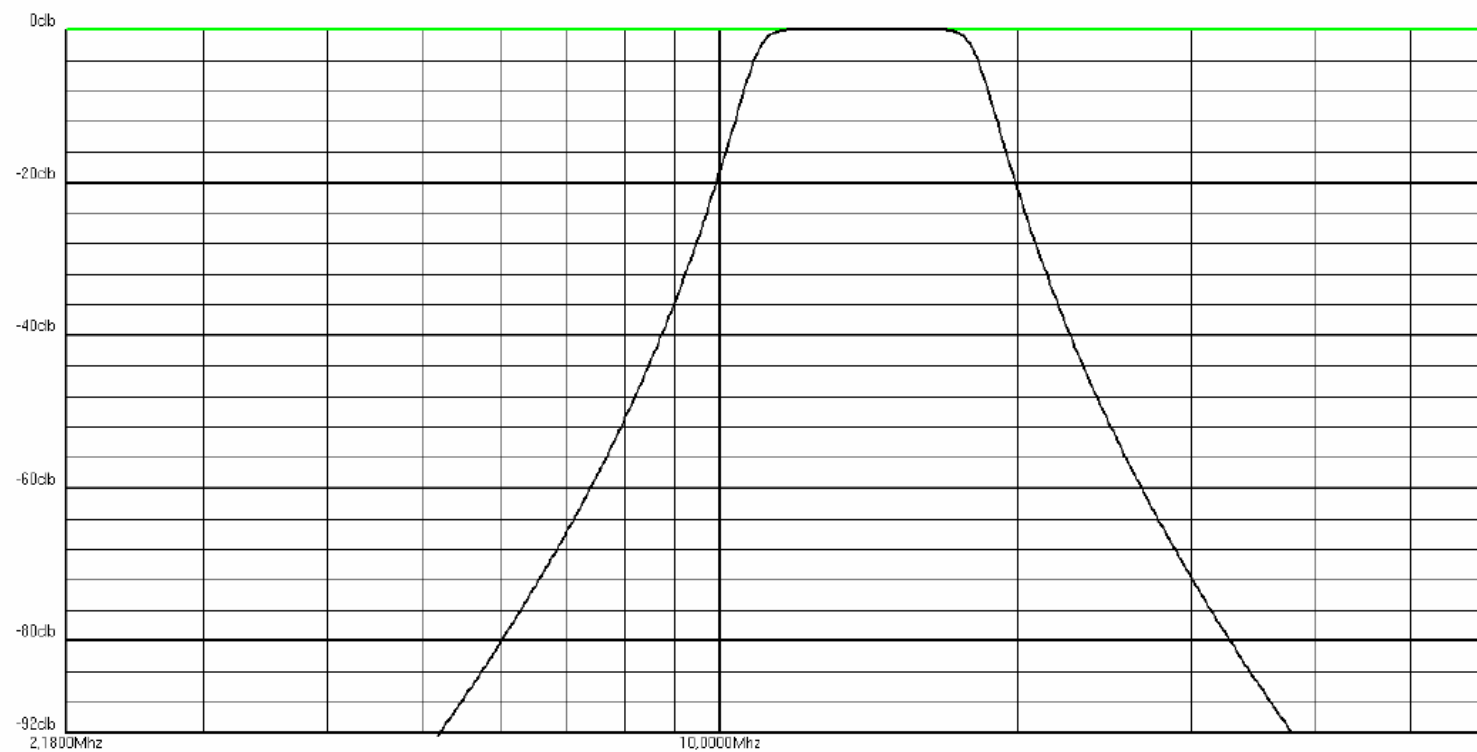
**Bandfilter G 11,0 MHz bis 18,0 MHz**

**Butterworth**

**7te Ordnung**

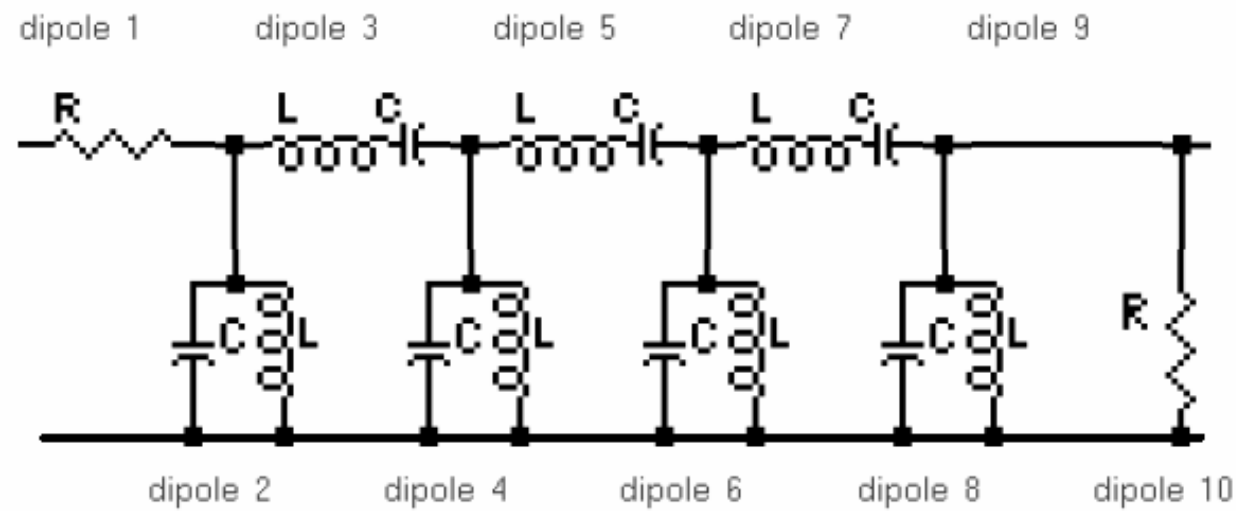
**CF = 14,5 MHz**

**BW = 7,2 MHz**



4.db/div





Preselektor HSDR-4512  
09.03.2008 Werner, DL7MWN

- DIPOLE 1  
R 1=50, L 6=,112196uHy  
F(L6C6)=  
23,478714MHz
- DIPOLE 2  
C 2=101,15227pF L 2=,454272uHy  
F(L2C2)=  
23,478714MHz
- DIPOLE 3  
C 3=64,85113pF L 3=,708556uHy  
F(L3C3)=  
23,478714MHz
- DIPOLE 4  
C 4=409,55719pF L 4=,112196uHy  
F(L4C4)=  
23,478714MHz
- DIPOLE 5  
C 5=40,43402pF L 5=1,136uHy  
F(L5C5)=  
23,478714MHz
- DIPOLE 6  
C 6=409,55719pF
- DIPOLE 7  
C 7=64,85113pF L 7=,708556uHy  
F(L7C7)=  
23,478714MHz
- DIPOLE 8  
C 8=101,15227pF L 8=,454272uHy  
F(L8C8)=  
23,478714MHz
- DIPOLE 10  
R 10=50,

**Bandfilter H 18,0 MHz bis 30,0 MHz**

**Butterworth 7te Ordnung**

**CF = 24,0 MHz**

**BW = 12,2 MHz**

