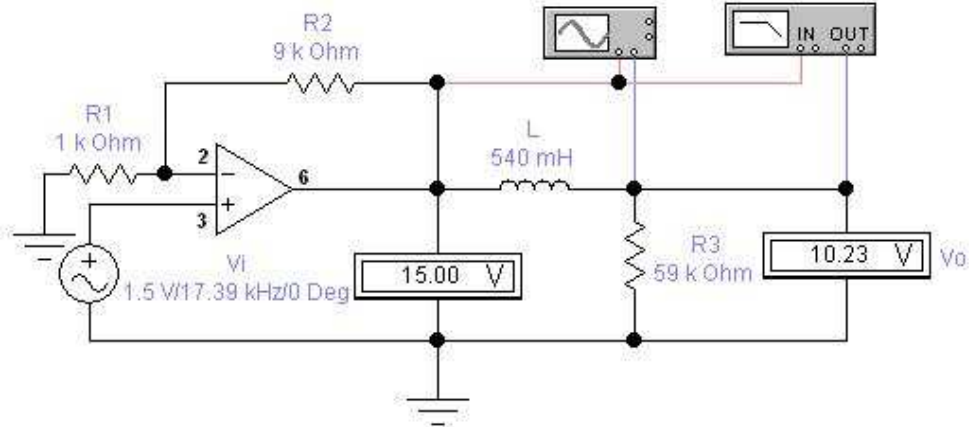


Progetto di Luigi di Massa - Filtro attivo Passa-Basso L\_R – Data: 7/1/08



$K = 10$  –guadagno statico

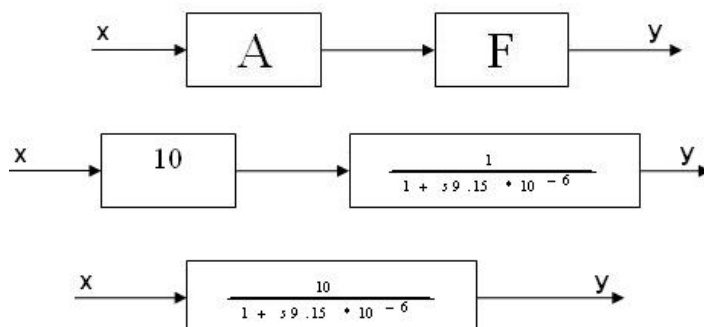
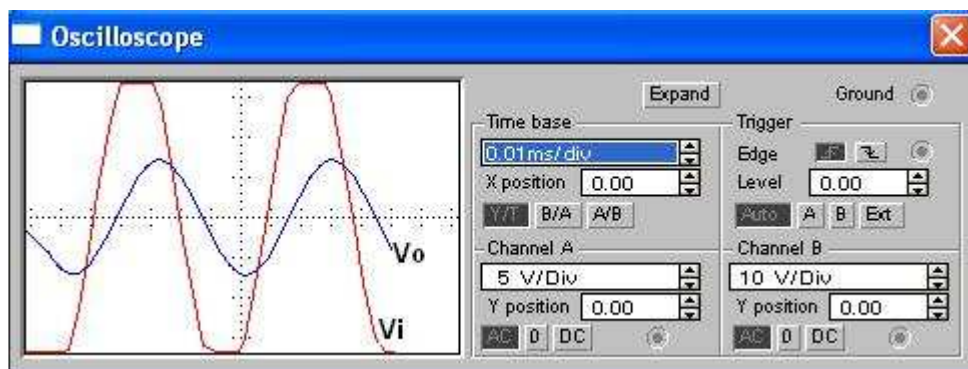
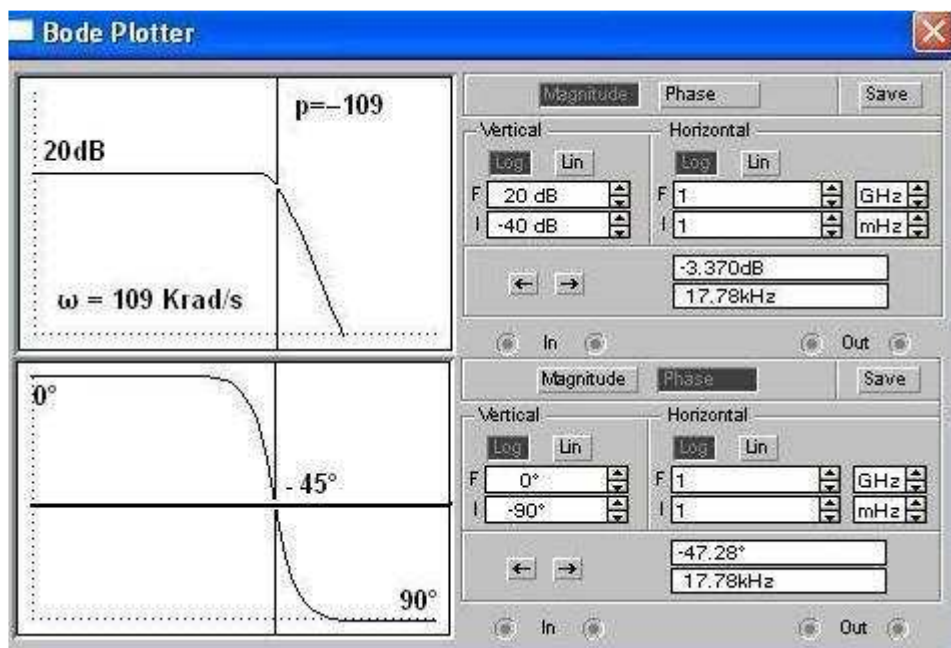
$$\tau = \frac{L}{R} = 9,15 \mu s$$

$$f_c = 17.39 \text{ KHz } G_{db} = 20 \text{ dB}$$

$$A = \frac{R_2}{R_1} + 1 = \frac{9}{1} + 1 = 10$$

$$A_t = \frac{V_o}{V_i} = \frac{10.23}{1.5} = 6.82$$

$$W = A * F = \frac{10}{1 + s9.15 * 10^{-6}}$$



# Programma in MATLAB

```
» F=TF(1,[0.00000915 1])
```

Transfer function:

$$1$$

-----  
 $9.15e-006 s + 1$

```
» A=10
```

A =

$$10$$

```
» W=A*F
```

Transfer function:

$$10$$

-----  
 $9.15e-006 s + 1$

```
» BODE(W)
```

```
»
```

