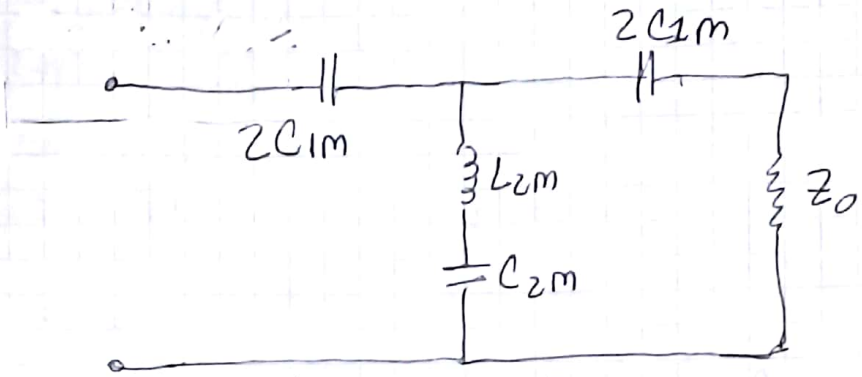
(2)

A) **Pasa Altos m-Derivados.**




B) Pulsación de Corte ($w_c$)

$$w_c = \frac{1}{2m \cdot \sqrt{L_{2m} \cdot C_{1m}}}$$

C) $f_c = \frac{w_c}{2\pi}$

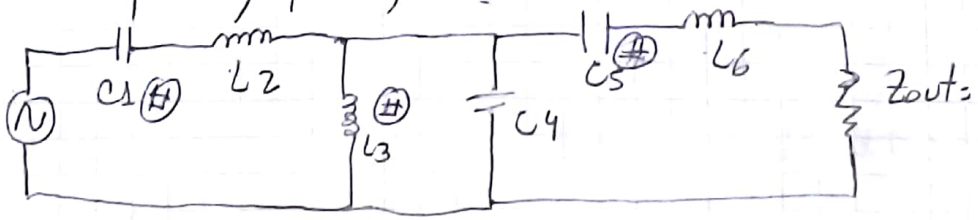
D) $z_o = \sqrt{\frac{L_{2m}}{C_{1m}}}$

E) $m = \sqrt{\frac{C_{2m}}{C_{2m} + 4 \cdot C_{1m}}}$ (ojo (2.2C1m))

F) $w_o = \frac{1}{\sqrt{L_{2m} \cdot C_{2m}}}$

**Filtro Pasa Banda (PB), chevishev.**

Datos: $f_{c1}$ =; $f_{c2}$; $R_o$:



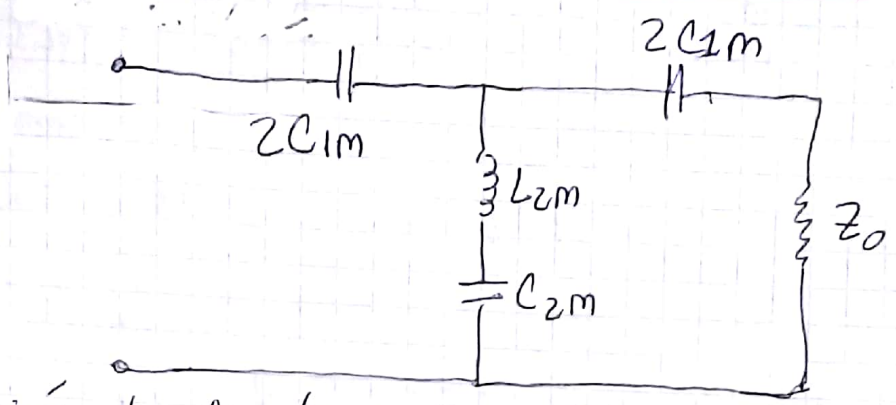

- $w_{c1} = 2\pi \cdot f_{c1}$
- $w_{c2} = 2\pi f_{c2}$.
- $Bw = w_{c2} - w_{c1}$

$$w_{on}^2 = \frac{w_{c1} - w_{c2}}{(w_{c2} - w_{c1})^2} =$$

$$w_o = \sqrt{w_{c1} \cdot w_{c2}}$$

(2)

A) **Pasa Altos m-Derivados.**




B) Pulsación de Corte ($w_c$)

$$w_c = \frac{1}{2m \cdot \sqrt{L_{2m} \cdot C_{1m}}}$$

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ojo (2.2C1m)

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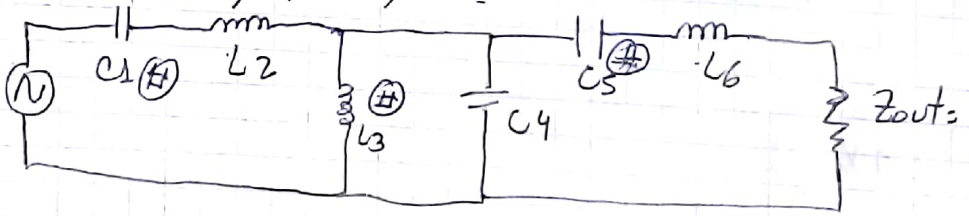
**Filtro Pasa Banda (PB), chevishev.**

Datos: $f_{c1}$ =; $f_{c2}$; $R_0$:




- $w_{c1} = 2\pi \cdot f_{c1}$
- $w_{c2} = 2\pi f_{c2}$.
- $BW = w_{c2} - w_{c1}$

$$w_{on}^2 = \frac{w_{c1} \cdot w_{c2}}{(w_{c2} - w_{c1})^2} =$$

$$w_0 = \sqrt{w_{c1} \cdot w_{c2}}$$

③

Bw = a  Ro = b.

D) $C_1' = \frac{C_1}{w_{on}^2 \cdot a \cdot b} =$

f) $L_3' = \frac{L_3 \cdot b}{w_{on}^2 a}$

e) $L_2' = \frac{L_2 \cdot b}{a}$

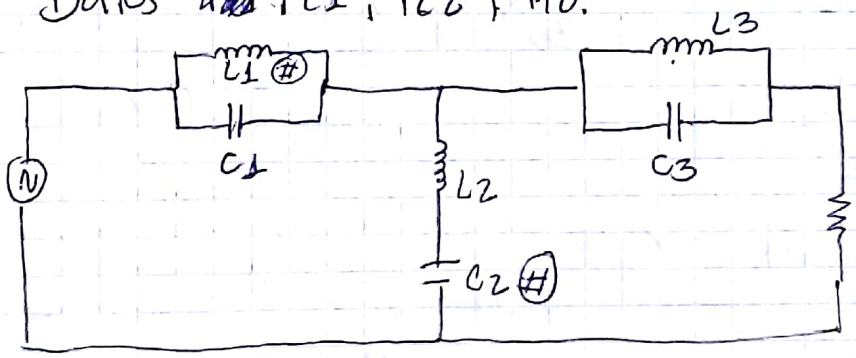
g) $C_4' = \frac{C_4}{a \cdot b}$

H) $C_5' = \frac{C_5}{w_{on}^2 \cdot a \cdot b}$

I) $L_5' = \frac{L_6 \cdot b}{a}$

## Filtro elimina Banda normalizado chevyshev.

Datos Fc1, Fc2, Ro.




(A) $w_0 = \sqrt{w_{c1} \cdot w_{c2}}$  (B) $BW = w_{c2} - w_{c1}$

(C) $w_{on}^2 = \frac{w_{c1} \cdot w_{c2}}{(w_{c2} - w_{c1})^2}$

a = Bw  b = Ro.

D) $C_1' = \frac{C_1}{a \cdot b}$

(E) $L_1' = \frac{L_1 \cdot b}{w_0^2 \cdot a}$ (#)

(H) $C_3' = \frac{C_3}{a \cdot b}$

F) (#) $C_2' = \frac{C_2}{w_{on}^2 \cdot a \cdot b}$

(G) $L_2' = \frac{L_2 \cdot b}{a}$

(I) (#) $L_3 = \frac{L_3 \cdot b}{w_{on}^2 a}$

- **Pasa banda. Kcte.**
- Pulsaciones de $W_c$ o $W_o$:

(B) $$W_o = \frac{1}{\sqrt{L_1 . C_1}}$$

(C) $$f_c = \frac{W_o}{2\pi}$$

D) Ancho de Banda [BW]:

$$BW = \frac{1}{\sqrt{L_1 . C_2}} =$$

e) $$0 = W_{c1} + W\, W_{c1} - W_o^2$$

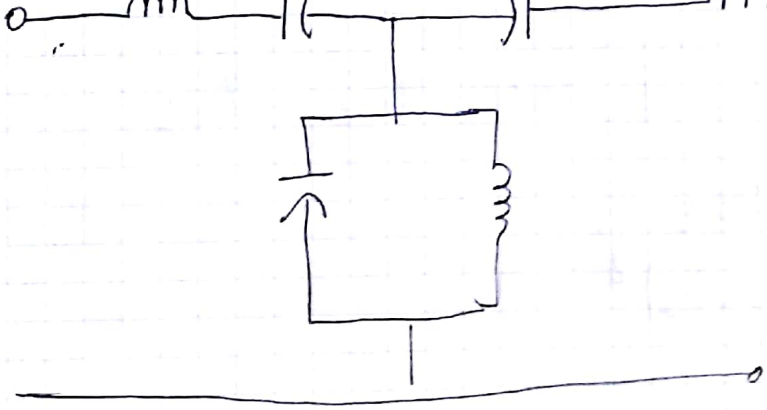
$a = 1$
$b = BW$ } $W_{c1}$
$c = -W_o^2$

F) Pulsación $W_{c2}$:

$$W_{c2} = \frac{W_o^2}{W_{c1}} =$$

g) $$Z_o = \frac{2}{C_2 . BW}$$

- (A) Pasa Banda Kcte



Pulsación de $W_o$

(B) $$W_o = \frac{1}{\sqrt{L_1 \times C_1}}$$

(C) Frecuencia de corte

$$F_c = \frac{W_o}{2\pi}$$

d) Ancho de Banda

$$BW = \frac{1}{\sqrt{L_1 . C_2}}$$

e) $$\overset{a}{W_{c1}}^2 + \overset{b}{W}\, \overset{c}{W_{c1}} - W_o^2$$

$BW$ ; $-W_o^2$

$a = 1$
$b = BW$ } Raíces.
$C = -W_o^2$

F) $$W_{c2} = BW + W_{c1}$$

G) $$Z_o = \frac{2}{C_2 BW}$$