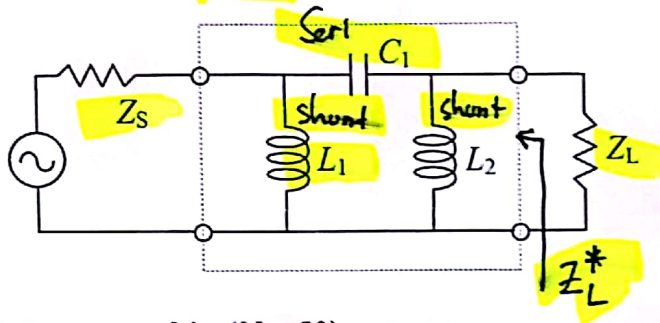


a. Rangkaian penyesuai impedansi (type  $\Pi$  untuk menahan frekuensi tinggi, **HPF**)



b. Salah satu solusi yang mungkin ( $N = 50$ ):

$Z_S = 25 + j25 \Omega$  ( $z_S = 0.5 + j0.5$ ),  $Z_L = 50 \Omega$  ( $z_L = 1$ ),  $f = 50 \text{ MHz}$ ,  $Q = 5$

$L_1 = 50 / [2\pi \times (50 \times 10^6) \times 4] = 398 \text{ nH}$  (paralel) **398 nH**

$C_1 = 1 / [2\pi \times (50 \times 10^6) \times 0,4 \times 50] = 160 \text{ pF}$  (seri) **160 pF**

$L_2 = 50 / [2\pi \times (50 \times 10^6) \times 5] = 31,8 \text{ nH}$  (paralel) **31.8 nH**

