

1. General

The filter has to be driven single ended. It is matched to 50 Ω .

The termination impedances are :

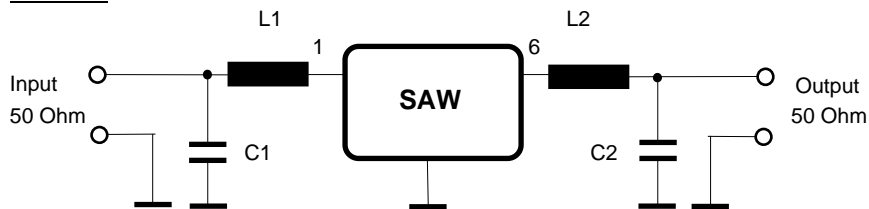
Input: 630 Ω || -5,5 pF

Output: 600 Ω || -5,6 pF

2. Theoretical matching

The values of the matching elements which are given below are calculated from the source and load impedance. If the values of the matching elements are not equal to standard values the best standard values/best combination of standard values are given in brackets.

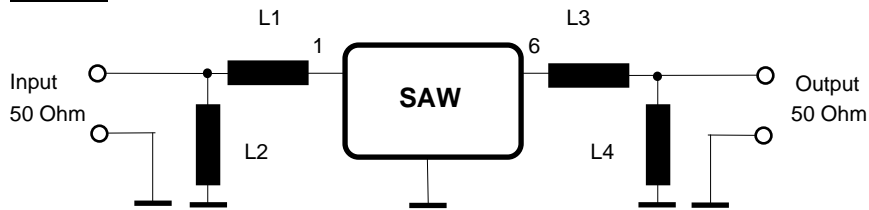
Circuit 1



L1 = 88 nH (82 nH / 56 nH+33 nH)
C1 = 15 pF

L2 = 87 nH (82 nH / 56 nH+33 nH)
C2 = 15 pF

Circuit 2



L1 = 56 nH
L2 = 27 nH

L3 = 56 nH
L4 = 27 nH

Both matching circuits are theoretically possible, but the first circuit is used in our final measurements. The calculation was made without consideration of parasitics, so the elements which have to be used on the PCB are slightly different from the stated.