

General

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

The matching element values given below are valid theoretically. The matching elements have to be optimised regarding the circuit and PCB design and existing parasites.

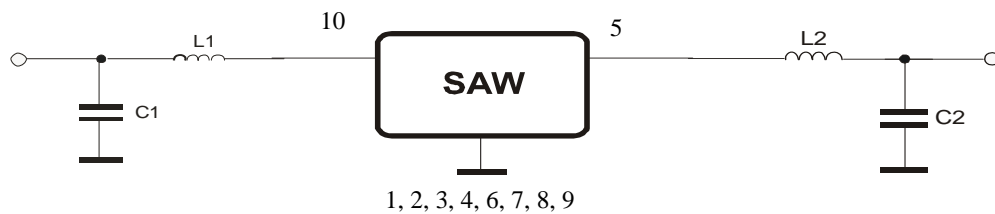
Theoretical matching

The measured terminating impedances of the filter are:

Input: $780 \Omega \parallel -7,9 \text{ pF}$

Output: $760 \Omega \parallel -7,9 \text{ pF}$

The values of the matching elements which are given below are calculated from the input and output impedance.



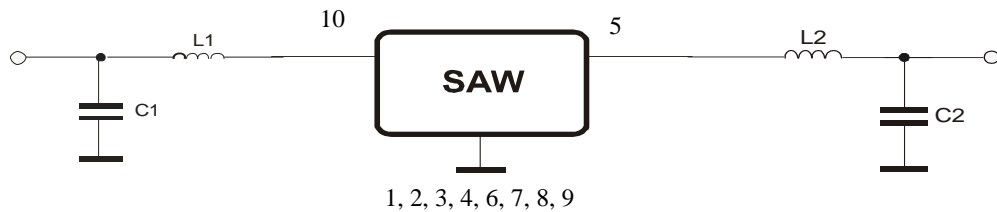
L1 = 129 nH

C1 = 26 pF

L2 = 130 nH

C2 = 27 pF

Matching on PCB



$$L1 = 82 \text{ nH} + 4,7 \text{ nH}$$

$$C1 = 39 \text{ pF}$$

$$L2 = 82 \text{ nH} + 8,2 \text{ nH}$$

$$C2 = 39 \text{ pF}$$

All other components are 0 Ω jumper.

The matching on the PCB does slightly differ from the theoretical matching. The reasons for that are parasites on PCB.

If the parasites on the customer board (mentioned parasites, additional parasites of active parts) are different to this PCB the matching elements have to be slightly adjusted.

In case of questions please contact us to

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