

1. General

The filter is driven in a single-ended way. It can be matched to 500 Ω on input and 1000 Ω on output side.

The matching element values given below are only valid in theory. The matching elements have to be optimised regarding the circuit and PCB design as well as existing parasites.

2. Theoretical matching

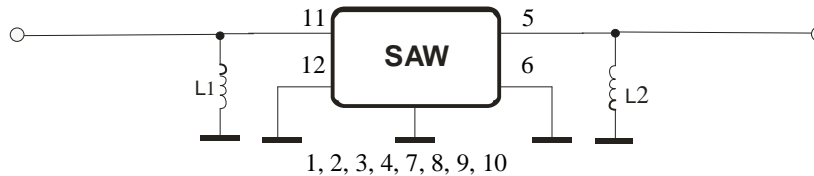
The termination impedances of the filter are:

source impedance: 310 Ω || - 25,7 pF

load impedance: 690 Ω || - 10,1 pF

The values of the matching elements given below are calculated from the source and load impedances. If the values of the matching elements do not come up to standard values, the closest standard values are given in brackets.

500 Ω / 1000 Ω test circuit



L1 = 680 nH

L2 = 1800 nH

The matching on a PCB differs slightly from the theoretical matching due to parasites of the PCB. If the parasites on the customer board (mentioned parasites, additional parasites of active parts) differ from this PCB, the matching elements should be adjusted slightly.

Should you require more detailed information, please do not hesitate to contact us at

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