

General

The filter is balanced driven. It is matched to 100 Ω

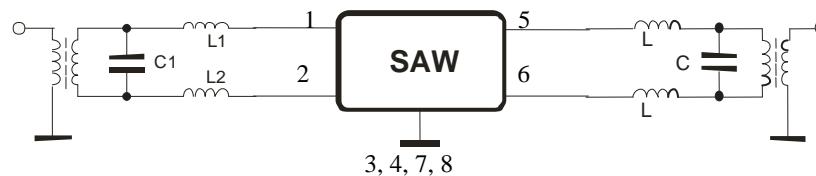
Theoretical matching

The balanced driven source and load impedances of the filter are:

Source impedance: 420 Ω || - 3,9 pF

Load impedance: 490 Ω || - 3,5 pF

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 are given in brackets.



L1 = L2 = 29 nH
C1 = 13,8 pF

L3 = L4 = 30,3 nH
C2 = 12,8 pF

Matching on the PCB

- matching on Telefilter-board (balanced driven, 50 Ohm):

L1 = 33 nH
L2 = 18 nH
C1 = 18 pF

L3 = 22 nH
L4 = 22 nH
C2 = 18 pF

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

TELEFILTER GmbH
Potsdamer Straße18
D 14 513 TELTOW / Germany
Tel: (+49) 3328 4784-0 / Fax: (+49) 3328 4784-30
E-mail: tft@telefilter.com

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