

1. 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 parasitics.

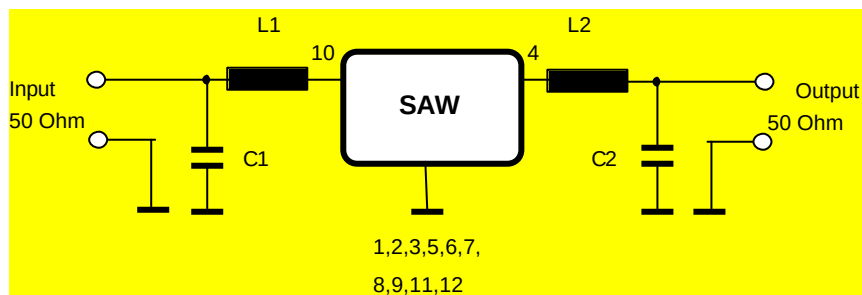
2. Theoretical matching

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

Source: 220 Ω $\parallel$ -12.8 pF

Load: 330 Ω $\parallel$ -10.8 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 = 51 nH (49 nH)

C1 = 24 pF (27 pF)

L2 = 58 nH (56 nH)

C2 = 25 pF (27 pF)

VI TELEFILTER
Potsdamer StraÙe 18
D 14 513 TELTOW / Germany
Tel: (+49) 3328 4784-52 / Fax: (+49) 3328 4784-30
0075
E-Mail: tft@telefilter.com

Vectron International, Inc.
267 Lowell Road
Hudson, NH 03051 / USA
Tel: (603) 598-0070 Fax: (603) 598-
0075
E-Mail: vti@vtinh.com

VI TELEFILTER reserves the right to make changes to the product(s) and/or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

VI TELEFILTER**Application Note****TFS 228 - 2/1**

VI TELEFILTER
Potsdamer Straße 18
D 14 513 TELTOW / Germany
Tel: (+49) 3328 4784-52 / Fax: (+49) 3328 4784-30
0075
E-Mail: tft@telefilter.com

Vectron International, Inc.
267 Lowell Road
Hudson, NH 03051 / USA
Tel: (603) 598-0070 Fax: (603) 598-
E-Mail: vti@vtinh.com

VI TELEFILTER reserves the right to make changes to the product(s) and/or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.