

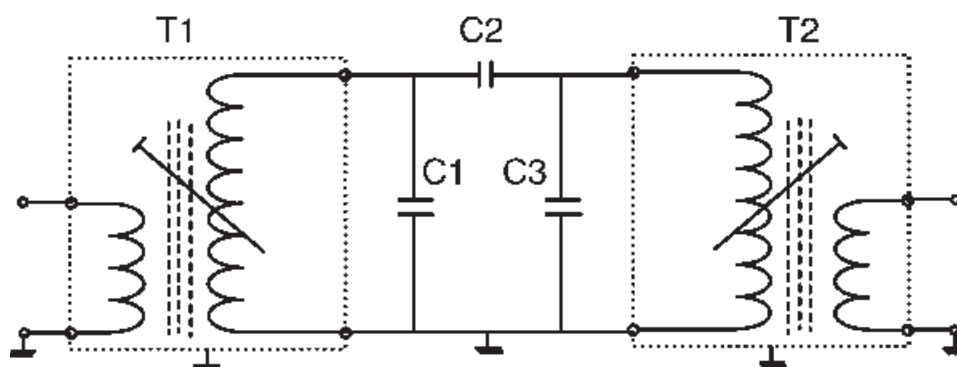
Quick and Easy Bandpass Filters for Receiver Input

Revd. George Dobbs G3RJV

“READY-DESIGNED” DUAL TUNED BANDPASS FILTERS [50 ohms input/output]

A series of Bandpass Filters designed for the input tuning of amateur band receivers by G QRP Club member Stefen Niewiadomski from his book *The Filter Handbook*. The filters are designed for 50 ohm input/output impedance and may be cascaded for better roll-off outside the passband. The TOKO coils also have a tap on the tuned winding which is useful for matching into input circuit of the order of 1k ohm. The designs use off-the shelf TOKO coils. The designations for the coils are the part number available in the UK. These can be ordered direct from the USA - see below. The inductors are variable [core tuned] but the mean inductance is given for matching to other inductors.

| From : The "Filter Handbook" Stefen Niewiadomski Heineman Newnes 1989 ISBN 0-434-91378-2 | | | | |
|---|-----------------|-----------------------|-----------------|------------|
| BAND MHz | T1 - T2 TYPE | T1 - T2 Inductance | C1 - C3 [pF] | C2 [pf] |
| 1.8 - 2.0 | 3333 | 45uH | 150 | 12 |
| 3.5 - 3.8 | 3333 | 45uH | 39 | 3.3 |
| 7.0 - 7.1 | 3334 | 5.5uH | 100 | 8.2 |
| 10.1 - 10.15 | 3334 | 5.5uH | 47 | 6.8 |
| 14.0 - 14.35 | 3334 | 5.5uH | 22 | 3.3 |
| 18.07 - 18.17 | 3335 | 1.2uH | 68 | 6.8 |
| 21.0 - 21.17 | 3335 | 1.2uH | 47 | 4.7 |
| 24.89 - 24.99 | 3335 | 1.2uH | 33 | 3.3 |
| 28.0 - 29.7 | 3335 | 1.2uH | 22 | 3.3 |
| T1 & T2 Inductor Types : KANK3333R, KANK3334R, KANK3335R | | | | |



At the time of writing, the inductors are available in the UK from BONEX 12 Elder Way Langley Business Park Slough Berkshire SL3 6EP Tel: 01753 549502 Fax: 01753 543812. A suggested US supplier for designated TOKO coils is PENSTOCK [800] 736-7862.

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