Cohn Crystal Filter Experimental Data

| f0, MHz | C, pF | BW, kHz | ∆f, MHz | Z0, Ω | Vi | Vo | IL, dB | order | comments |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 82 | 2.7 | 8,996.9 – 8,999.6 | 220 | 5 | 4 | -1.9 | 4th | ripples |
| 9 | 100 | 2.1 | 8,997.39 – 8,999.49 | 200 | 5 | 3.8 | -2.4 | 4th | reproducable |
| 9 | 150 | 1.4 | 8,997.26 – 8,998.67 | 150 | 4.8 | 3.2 | -3.5 | 4th |  |
| 9 | 200 | 1.1 | 8,997.25 – 8,998.34 | 150 | 5 | 2.6 | -5.7 | 4th |  |

| f0, MHz | C, pF | Z0, Ω | ∆f, MHz | BW, kHz | Vi | Vo | IL, dB | order | comments |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 51/47 | 400 | 9,998.0 – 10,000.9 | 2.9 | 5 | 4 | -1.9 | 2 | smooth |
| 10 | 47 | 200 | 9,997.8 – 10,000.6 | 2.8 | 5 | 4 | -1.9 | 4th | ripples |
| 10 | 47 | 200 | 9,997.7 – 10,000.1 | 2.4 | 5 | 3.2 | -3.9 | 8th | ripples |
| 10 | 39 | 380 | 9,997.9 – 10,000.6 | 2.7 | 5 | 3.6 | -2.9 | 8th | ripples |
| 10 | 43/39 | 400 | 9,998.0 – 10,000.8 | 2.8 | 5 | 3.6 | -2.9 | 8th | smooth |
| 10 | 47/43 | 400 | 9,997.8 – 9,999.8 | 2 | 5 | 3 | -4.4 | 8th | ripples |

| SSB | BW, kHz | Sq ratio |
| --- | --- | --- |
| Rx | 2.2 - 2.5 | 1.6 - 2.0 |
| Tx | 3 | 1.2 - 4.0 |