*BPF IF = 45MHz*

*Design goals:*

* Chebyshev, 0.1dB ripple
* loaded Q < 10
* IL < -2dB
* IF rejection > -120dB (requires -50dB DBM)
* image rejection > -120dB
* IMDR > 100dB

| Band | BW, MHz | Δf, MHz | Order | L, uH | IF, dB | Image, dB |
| --- | --- | --- | --- | --- | --- | --- |
| 40m | 1.5 | 6.5 – 8 | 3 | 5.23, T50-6 | > -120 | > -120 |
| 20m | 2 | 13.5 – 15.5 | 3 | 3.83, T50-6 | -97 | > -120 |
| 15m | 3 | 20 - 23 | 3 | 1.78, T50-10 | -79 | > -120 |
| 10m | 5 | 28 – 32 | 3 | 1.24, T50-10 | -46 | -114 |

| Band | C, pF | C1, pF | C2, pF | Vil | Vih | Vol | Voh | IL, dB | BW, MHz | Δf, MHz | Notes |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 40m | 120/135\* | 160 | 620 | 5 | 5 | 4.6 | 4.6 | -0.7 | 1.5 | 6.5 – 8 | 34t 0.25mm2 on T50-6, 5.23uH |
| 20m | 36/39 | 91 | 270 | 5 | 5 | 4.2 | 4.2 | -1.5 | 2 | 13.4 – 15.4 | 29t 0.25mm2 on T50-6, 3.83uH |
| 15m | 39/41\* | 110 | 240 | 5 | 5 | 4.2 | 4.2 | -1.5 | 3 | 20 - 23 | 22t 0.25mm2 on T50-10, 1.78uH |
| 10m | 30/33 | 82 | 180 | 5 | 5 | 4 | 4 | -1.9 | 4.9 | 26.4 – 31.3 | 18t 0.34mm2 on T50-10, 1.24uH |