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May/June 2023

About the Cover

Dennis Sweeney, WA4LPR, creates interdigitated bandpass filters with *INTRFIL* software. The design uses quarter-wavelength long round rods between parallel ground planes. Two test filters, one for 5760 MHz and the other for 2310 MHz, are designed, with simulated and measured results presented. Although the 5760 MHz filter had significantly higher loss than predicted, the agreement between design, simulation and measurement is encouraging. The 2310 MHz filter had an almost perfectly formed passband centered on 2359 MHz with no tuning. Precision is important but the results were encouraging enough that you could build a filter from the computer design and have confidence in its performance without sophisticated test equipment. *INTRFIL* should be useful in designing filters in the 500 to 6000 MHz range that will satisfy almost any amateur need.

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