Abstracts

A Two-Step Synthesis of Broadband Ridged Waveguide Bandpass Filters with Improved Performances (1991 Vol. II [MWSYM])

J.-C. Nanan, J.W. Tao, H. Baudrand, B. Theron and S. Vigneron. "A Two-Step Synthesis of Broadband Ridged Waveguide Bandpass Filters with Improved Performances (1991 Vol. II [MWSYM])." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 547-550.

A quarter-wave broadband ridged waveguide bandpass filter with improved stopband attenuation has been designed and realized. A two step design procedure associating Tchebychev's formulas with a rigorous optimization routine is also presented. The predicted filter performances, including the rectangular to ridged waveguide transformer, agree well with the measurements, showing improved stopband attenuation and reduced filter dimension in the Ku band.

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