

Abstracts

A tunable X-band active notch filter with low-distortion passband response

C. Rauscher. "A tunable X-band active notch filter with low-distortion passband response." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 179-182.

The tunable channelized active notch filter presented distinguishes itself through its ability to maintain forward signal flow in its three parallel-connected branches without an amplifier in the one branch that determines passband performance, resulting in extremely low signal distortion and very low noise levels at passband frequencies. The practicability of the new approach has been experimentally verified with a filter whose 40-dB-deep notch tunes, with the help of varactors, from 9.5 to 10.5 GHz.

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