

Abstracts

A Varactor-Tuned Active Microwave Bandpass Filter

*H. Trabelsi and C. Cruchon. "A Varactor-Tuned Active Microwave Bandpass Filter." 1992 *Microwave and Guided Wave Letters* 2.6 (Jun. 1992 [MGWL]): 231-232.*

Traditionally, microwave filters have been implemented as passive networks of wave guide, transmission-line, or discrete lumped elements. More recently, microwave active filters have also been realized. A microwave high-Q active bandpass filter is presented, using a varactor diode for tuning, and an active component giving a substantial increase in Q of the resonant sections of filter. High-Q filter elements offer low-filter insertion loss and also yield sharp passband corners, which cannot be achieved by lossy filter and amplifier combination.

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