Abstracts

An MMIC Twin-Tee Active Bandpass Filter (1993 [MCS])

F.J. Rosenbaum, R.O. Gregory, W.D. Richard, W. Ou, F.G. Kuhns and T.M. Trimble. "An MMIC Twin-Tee Active Bandpass Filter (1993 [MCS])." 1993 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 93.1 (1993 [MCS]): 163-166.

The design and performance of an MMIC active bandpass filter based on a twin-tee notch circuit are described. Design goals included a center frequency of 2 GHz and a Q that could be varied to well over 100. The device was fabricated in GaAs using 150 um transistors. Die size is approximately 1 square mm, and power dissipation is approximately 180 mW. Although Q values meet expectations, the measured center frequency is low.

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