Abstracts

A monolithic active notch tunable filter based on the gyrator principle

F. Giannini, E. Limiti, G. Orengo and P. Sanzi. "A monolithic active notch tunable filter based on the gyrator principle." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 809-812.

A monolithic bandstop active tunable filter has been designed and realised. The filter is based on a gyrator-type active resonator, implemented using only three active devices. The center frequency of the realised notch filter is around 1.9 GHz, with a tuning range of more than 400 MHz. Measured performances include a typical in-band rejection of more than 30 dB all over the operating bandwidth, a stopband span of less than 50 MHz, together with input/output match better than 12 dB. Positive supply only has been employed.

❑ Return to main document.