

Coplanar MMIC Active Bandpass Filters Using Negative Resistance Circuits (1994 [MCS])

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A second order active bandpass filter for a fixed centre frequency and a tunable one have been developed in coplanar line technique using negative resistance circuits. These filters operate in the 1.8 GHz band and have a 3 dB bandwidth of 110 MHz. The tuning range of the centre frequency is 200 MHz. Each filter is fabricated on a GaAs substrate and occupies an area of 1.5 x 1.6 mm² on the wafer including all biasing elements.

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