Abstracts

A low-power HBT MMIC filter based on tunable active inductors

R. Kaunisto, P. Alinikula, K. Stadius and V. Porra. "A low-power HBT MMIC filter based on tunable active inductors." 1997 Microwave and Guided Wave Letters 7.8 (Aug. 1997 [MGWL]): 209-211.

An integrated active microwave filter employing high-Q active inductance simulating circuits is presented in this paper. Heterojunction bipolar transistor (HBT) technology is best-suited for this specific application facilitating the design and giving optimum performance with low power consumption. The prototype triple-resonator filter operates at 2.32 GHz with a 300 MHz -3-dB bandwidth. The power consumption is only 25 mW drawn from a 3-V supply.

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