

7.3-GHz Dynamic Frequency Dividers Monolithically Integrated in a Standard Bipolar Technology

R.H. Derksen and H.-M. Rein. "7.3-GHz Dynamic Frequency Dividers Monolithically Integrated in a Standard Bipolar Technology." 1988 Transactions on Microwave Theory and Techniques 36.3 (Mar. 1988 [T-MTT]): 537-541.

Monolithic integrated microwave 1/2 and 1/8 frequency dividers were developed and fabricated in standard 2- μm bipolar technology. The circuits which operate from about 2 to 7.3 GHz are based on the principle of "regenerative frequency division." Assuming that the same technology is used, this principle makes it possible to double the upper frequency limit, compared to the most popular static master-slave D-flip-flop dividers. Furthermore, power consumption can be considerably reduced.

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