

Abstracts

Si Monolithic Microwave Prescaler

S. Watanabe, S. Shinozaki, N. Kusama, S.-I. Miyazaki and T.-a. Nakata. "Si Monolithic Microwave Prescaler." 1984 Transactions on Microwave Theory and Techniques 32. 12 (Dec. 1984 [T-MTT] (1984 Symposium Issue)): 1688-1692.

This paper describes an Si monolithic microwave prescaler IC with a toggle frequency of 3.9 GHz. To optimize circuit parameters and to determine the dominant transistor parameters, a precise computer simulation has been used. An improved IC manufacturing process was developed to achieve the desired parameters and to obtain a transistor cutoff frequency of 10 GHz.

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