

Abstracts

A 9.5 GHz Commercially Available 1/4 GaAs Dynamic Prescaler

M. Takahashi, H. Itoh, K. Ueda and R. Yamamoto. "A 9.5 GHz Commercially Available 1/4 GaAs Dynamic Prescaler." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1913-1919.

A mass-producible 1/4 GaAs monolithic dynamic prescaler operating with a single clock input of 9.5 GHz and a power dissipation of 480 mW has been successfully realized. In addition, the phase noise performance was -100 dBc/Hz and -120 dBc/Hz at 100 Hz and 10 kHz offsets, respectively, for a 6.725 GHz input, which is considered to be low enough for practical use.

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