

Abstracts

Analog Avalanche Diode Frequency Division (Short Papers)

C. Dalle, G. Ellena, P. Manet and P.A. Rolland. "Analog Avalanche Diode Frequency Division (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.8 (Aug. 1990 [T-MTT]): 1132-1136.

In this paper the potential interest of analog avalanche diode frequency dividers is demonstrated. Their fundamental operating principle relies on the use of an idler signal. Experiments performed on avalanche diode frequency dividers with division ratios of 2, 3, and 4 in the centimeter-wave range have pointed out the possibility of wide instantaneous bandwidth and interesting RF conversion efficiencies.

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