Abstracts

New Topology of the GaAs Non-Linear Transmission Line (NLTL) Using Microstrip Line Technology

D. Salamh and D. Linton. "New Topology of the GaAs Non-Linear Transmission Line (NLTL) Using Microstrip Line Technology." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 823-826.

A novel NLTL is designed using microstrip as an alternative to the coplanar wave guide (CPW) approach which has the advantage of reduced chip size and cost. A frequency mutiiplier has been designed with the number of sections optimized for power output using harmonic balance simulation. The large and small signal models of the 4*75 µm GaAs schottky diode which is used in the design are verified using S-parameters and large signal measurements.

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