Abstracts

A Dual-Varactor, Analog Phase Shifter Operating 6 to 18 GHz (1988 [MCS])

D.M. Krafcsik, S.A. Imhoff, D.E. Dawson and A.L. Conti. "A Dual-Varactor, Analog Phase Shifter Operating 6 to 18 GHz (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 83-86.

An MMIC analog reflection phase shifter achieves 120 degrees of phase shift from 6 to 18 GHz using a dual-varactor reflection circuit which allows varactors with 3:1 capacitance ratio to achieve the performance that normally requires 10:1 diodes. The varactor diode is a surface-oriented structure with a hyperabrupt doping profile selectively ion implanted to a depth of 0.70 µm.

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