Abstracts

A Dual-Varactor Analog Phase Shifter Operating at 6 to 18 GHz (Dec. 1988 [T-MTT])

D.M. Krafcsik, S.A. Imhoff, D.E. Dawson and A.L. Conti. "A Dual-Varactor Analog Phase Shifter Operating at 6 to 18 GHz (Dec. 1988 [T-MTT])." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1938-1941.

An MMIC analog reflection phase shifter achieves 120° of phase shift from 6 to 18 GHz using a dual-varactor reflection circuit which allows varactors with a 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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