Abstracts

DC-20 GHz N x M Passive Switches (Dec. 1988 [T-MTT])

M.J. Schindler, M.E. Miller and K.M. Simon. "DC-20 GHz N x M Passive Switches (Dec. 1988 [T-MTT])." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1604-1613.

High-order, bidirectional, dc-20 GHz switch networks have been developed. Single-chip 1x2, 1x4, and 2x2 switch MMIC's have been demonstrated. Multiple chips have been used to demonstrate 4x4 and 1x16 switches. The switches all use a combination of series and shunt passive FET switching elements. The 1x4 switch is made of a single stage of switching elements, rather than the usual two stages of 1x2 switches. The 2x2 switch is comprised of two stages of 1x2 switches. The multiple-chip 4x4 switch is made of four stages of 1x2 switches (using the 2x2 switch MMIC's). Two stages of 1x4 switches are used to make the 1x16 switch.

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