

# Abstracts

## Insertion Loss of 4-Level Phase Switch (Short Papers)

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*W.O. Schlosser and K. Kurokawa. "Insertion Loss of 4-Level Phase Switch (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.9 (Sep. 1972 [T-MTT]): 614-616.*

A 4-level phase switch using two switching diodes and one circulator is investigated and compared to a switch using two circulators. The results are as follows. 1) If one uses a lossless combining network for the two diodes, it is impossible to make the losses equal in all four switching states. 2) One can balance the losses by introducing a lossy element into the circuit. The loss of this circuit is given as a function of diode  $Q$ .

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