

# Abstracts

## Effect of Diode Parameters on Reflection-Type Phase Shifters (Short Papers)

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*P. Wahi and K.C. Gupta. "Effect of Diode Parameters on Reflection-Type Phase Shifters (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.9 (Sep. 1976 [T-MTT]): 619-621.*

This short paper describes effects of series inductance, shunt capacitance, and resistances associated with p-i-n diodes on the performance of reflection-type digital phase shifters using a shorted transmission line behind a shunt-mounted diode. It is found that the shunt capacitance is the most dominant reactance influencing the phase shift and it increases the phase-shift value. The series inductance reduces the phase-shift value. Expressions for phase shift in various cases are presented.

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