

# Abstracts

## A Lumped Element Diode Phase Shifter

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*P.A. Rizzi. "A Lumped Element Diode Phase Shifter." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 49-51.*

A digital phase shifter utilizing three PIN diodes in a tee configuration is described. The operation is explained in terms of low and high pass filter characteristics. Design expressions for phase change, insertion loss and VSWR as a function of element values are given. Frequency characteristics for 45, 90 and 180 degree units are shown in graphical form.

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