Abstracts

A Waveguide Switched-Susceptance (Diode-Patch) Phase Shifter

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A new digital PIN-diode phase shifter that operates in double-ridge waveguide is described. The phase shifter consists of several split conductive patches etched on a dielectric strip which is inserted in the longitudinal direction in the waveguide. The upper and lower half of each split patch are electrically connected by a diode that is switched between forward and reverse bias to shift the phase in the waveguide. An optimization design approach and experimental test results are presented.

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