# Abstracts

## A 360° Reflection-Type Diode Phase Modulator (Correspondence)

*B.T. Henoch and P. Tamm. "A 360° Reflection-Type Diode Phase Modulator (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.1 (Jan. 1971 [T-MTT]): 103-105.*

A 360° phase modulator using two series-tuned varactors in a parallel connection is described. The design minimizes the change in total phase shift with frequency and gives a small attenuation ripple. The modulator is centered at 2 GHz and gives a total phase shift at 360° at the center frequency, an attenuation ripple of 1.3 dB over a 10-percent bandwidth and a 7° decrease of phase shift at the band edges.

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