

Abstracts

A Slow Wave Digital Ferrite Strip Transmission Line Phase Shifter (Dec. 1966 [T-MTT])

R.R. Jones. "A Slow Wave Digital Ferrite Strip Transmission Line Phase Shifter (Dec. 1966 [T-MTT])." 1966 Transactions on Microwave Theory and Techniques 14.12 (Dec. 1966 [T-MTT]): 684-688.

This paper is concerned with the development of a nonreciprocal, digital, slow wave phase shifter which combines submicrosecond switching times with a compact strip transmission line structure. After a qualitative explanation of the operation of the phase shifter is given, an analysis of the dispersion characteristics of the meander line is presented. Impedance matching techniques are discussed along with the experimental results. Various design parameters, which affect the device performance, are examined.

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