

Abstracts

Broadband Binary 180° Diode Phase Modulators (Jan. 1965 [T-MTT])

R.V. Garver. "Broadband Binary 180° Diode Phase Modulators (Jan. 1965 [T-MTT])." 1965 *Transactions on Microwave Theory and Techniques* 13.1 (Jan. 1965 [T-MTT]): 32-38.

The development of two types of broadband binary 180° diode phase modulators is disclosed. One type uses two waveguide paths with a diode switch in each arm to alternate between RF transmission paths. The phase modulation is obtained by an arrangement of E-plane and H-plane T junctions. The other type of phase modulator makes use of the reflection properties of a diode terminating a transmission line in conjunction with a 3-db coupler or circulator.

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