Abstracts

Ferrite Phase Shifter for the UHF Region

C.M. Johnson. "Ferrite Phase Shifter for the UHF Region." 1959 Transactions on Microwave Theory and Techniques 7.1 (Jan. 1959 [T-MTT]): 27-31.

An extremely compact, low-loss, ferrite phase shifter has been developed for the 200 to 800-mc region. It consists of a folded stripline structure approximately 6½ inches long and less than 1 inch square in cross section. The device requires a longitudinal magnetic field of sufficient intensity to place the operating region above resonance. For field swings of about 900 oersteds (from 430 to 1250 oersteds at 400 mc), 360° change in phase shift can be obtained with about 1 db of loss. The phase shifter is reciprocal and shows identical low-power and high-power characteristics up to at least 10-kw peak. Some additional data are included on the operation of the phase shifter down to 10 mc and up to 2000 mc.

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