Abstracts

Design of Ferrite Differential Phase Shift Sections

C.R. Boyd, Jr.. "Design of Ferrite Differential Phase Shift Sections." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 240-242.

Ferrite differential phase shift sections are useful as nonreciprocal circular polarizers in dual-mode phase shifters, as half-wave plates in precision rotary-field phase shifters, and in other devices where nonreciprocal birefringence is desirable. This paper presents a simple design model that provides accurate estimates of the differential phase shift and frequency dispersion of sections using transverse quadrupole magnetic field biasing in a circular waveguide completely filled with ferrite.

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