Abstracts

Simultaneous Dual-Polarization Ferrite Phase Shifter

W.E. Hord and C.R. Boyd, Jr.. "Simultaneous Dual-Polarization Ferrite Phase Shifter." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 727-730.

Radar system needs exist for antennas capable of forming simultaneous orthogonally polarized congruent agile beams. For a phased array system this implies that the phase shifters must be capable of transmitting and receiving any arbitrary polarization. This paper describes the performance of a latching reciprocal ferrite shifter at X-band frequencies which provides polarization-independent performance at moderate power levels and with low insertion loss.

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