Abstracts

Latching Reciprocal Polarization-Insensitive Phase Shifter (Correspondence)

P.J. Meier. "Latching Reciprocal Polarization-Insensitive Phase Shifter (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.11 (Nov. 1968 [T-MTT]): 958-959.

In the recent literature, a ferrite device has been described that provides reciprocal phase shift for any wave polarization. Such a device is extremely useful for multifunction array antennas. Unfortunately, however, this device requires an external solenoid to provide the control field and, therefore, consumes considerable "holding" power. Moreover, the solenoid inductance and eddy currents induced within the waveguide walls limit the switching speed that can be obtained. A new ferrite phase shifter is now described that is a latching device in addition to being reciprocal and polarization insensitive.

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