Abstracts

A Latching Ferrite Rotary-Field Phase Shifter

C.R. Boyd, Jr.. "A Latching Ferrite Rotary-Field Phase Shifter." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 103-106.

Ferrite rotary--field phase shifters have offered highly accurate reciprocal phase control for moderate to high microwave power levels, at the expense of continuous current excitation. This paper presents the concept, basic design considerations, and initial data for the first realization of a latching version that operates at remanent magnetization of the ferrite and requires excitation only during switching. Changes in configuration necessary for latching operation imply slightly larger rms phase errors and a reduced capability for average r-f power handling. Data are presented for a breadboard S-Band unit, and control advantages unique to this device are discussed.

❑ Return to main document.