Abstracts

A Digital Latching Ferrite Strip Transmission Line Phase Shifter (1965 [MWSYM])

L.R. Whicker and R.R. Jones. "A Digital Latching Ferrite Strip Transmission Line Phase Shifter (1965 [MWSYM])." 1965 G-MTT Symposium Program and Digest 65.1 (1965 [MWSYM]): 111-114.

This paper is concerned with the development of a new non-reciprocal, digital phase shifter which combines the rapid switching speeds offered by latching devices and the compactness of a strip transmission line structure. A four-bit. C-band model is described which offers a maximum of 3 percent phase deviation across an 8 percent frequency band with a corresponding figure of merit (degrees of phase shift/db loss) in excess of 500. In addition, the new phase shifter is much smaller than its waveguide counterpart, and is better suited for integration into a compact matrix which may contain many identical phase shifters.

❑ Return to main document.