

Abstracts

Phased-Array Digital Time Delay Phaser Using Latching Ferrite Switches

P.C. Goodman. "Phased-Array Digital Time Delay Phaser Using Latching Ferrite Switches." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 264-269.

Recent developments in latching ferrite phase shifters permit phase control within 360 degrees at microsecond switching times for phased-array antenna elements. When an array antenna must handle large instantaneous signal bandwidths, the simple modulo 2π phase control provided by these phase shifters must be supplemented by real time delays of several nanoseconds. The time delay phaser described below provides four-bit digital subdivision of an 8.7-nanosecond total time delay in increments of 0.58 nanosecond.

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