

Wide-Band True Time Delay Phase Shifter Devices

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Fiber optic links in microwave and millimeter wave region have recently been demonstrated. Integration of these links into systems require the development of fiber optic devices such as novel true time delay devices. Most of the currently available fiber optic time delay components provide for constant, fixed time delays. Many applications on the other hand, such as optically controlled phased arrays, would require variable time delays for phase shifting purposes. This paper is concerned with variable time delay devices and their systems integration.

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