Abstracts

Fiber Optic Dual Delay Line for a Multi-Mode Radar Test Target Simulator

A. Paolella, S. Malone, T. Higgins, B. Scheiner and E. Adler. "Fiber Optic Dual Delay Line for a Multi-Mode Radar Test Target Simulator." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1059-1062.

A fiber optic delay line has been designed for a multimode radar test target simulator. This delay line, operating between 3.0 to 3.6 GHz, has a fixed delay of 30 µsec. Low transmission loss has been achieved using reactive matching techniques and a GRIN lens for optical coupling of the laser to the fiber. The transmission gain of a link consisting of the transmitter and receiver, connected with a short length of single-mode fiber, is -17 dB at 3.3 GHz with 1 dB variation across the band.

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