Abstracts

Recirculating Fiberoptic Link for Memory Loop

R. Saedi, X. Zhou, S. Malone, A. Daryoush, P. Herczfeld and B. Even-Or. "Recirculating Fiberoptic Link for Memory Loop." 1991 MTT-S International Microwave Symposium Digest 91.2 (1991 Vol. II [MWSYM]): 581-584.

Fiberoptic links can be used as delay elements in microwave frequency memory loops. This paper presents the analysis and experimental results of a recirculating memory loop operating over 2-4GHz leading to a 100µsec delay. The reactively matched optical transmitter and actively matched optical receiver are designed to achieve optimum loop performance. New gain equalization techniques are discused permitting along time delay in the range of milliseconds.

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