Abstracts

0.83- and 1.3-Micron Microwave (2-18 GHz) Fiber-Optic Links Using Directly Modulated Laser Sources

R.D. Esman, L. Goldberg and J.F. Weller. "0.83- and 1.3-Micron Microwave (2-18 GHz) Fiber-Optic Links Using Directly Modulated Laser Sources." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 973-976.

Loss and noise characteristics of 0.83-µm and 1.3-µm directly modulated laser fiber optic links were measured from 2 to 18 GHz. The 1.3-µm system exhibited lower loss (46 dB at 18 GHz) and noise figure (64 dB at 18 GHz) than the 0.83-µm version for frequencies above 10 GHz. Deleterious feedback induced effects were observed in the 0.83-µm link, including sporadic 45 dB RF signal dropouts.

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