

Abstracts

Signal and Noise Analysis of Direct Modulation Fiber Optic Link with Optical Component and Arbitrary Lossless Matching Circuits

J.A. MacDonald, E.I. Ackerman and J.L. Prince. "Signal and Noise Analysis of Direct Modulation Fiber Optic Link with Optical Component and Arbitrary Lossless Matching Circuits." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 167-170.

We give a general analytical signal and noise model for a direct modulation fiber optic link that includes an optical component with gain or loss, and arbitrary lossless matching circuits at the input and output. The model equations reduce to previously published results under certain specific conditions. We describe experiments which verify various aspects of the developed model.

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