

Abstracts

Balanced Receiver External Modulation Fiber-Optic Link Architecture with Reduced Noise Figure

E. Ackerman, S. Wanuga, J. MacDonald and J. Prince. "Balanced Receiver External Modulation Fiber-Optic Link Architecture with Reduced Noise Figure." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 723-726.

We describe a fiber-optic link architecture which minimizes noise figure by combining the two complementary outputs of a Y-fed coupler electrooptic modulator in such a way that the optical noise cancels in a balanced receiver module. The demonstration link exhibits 9.5 dB insertion loss and 13.5 dB noise figure at 900 MHz.

 [Return to main document.](#)