

Abstracts

Relative-intensity-noise cancellation in bandpass external-modulation links

R. Helkey. "Relative-intensity-noise cancellation in bandpass external-modulation links." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part I [T-MTT]): 2083-2091.

A new method of optically summing time-shifted complementary signals to cancel relative intensity noise (RIN) in narrow-band external-modulation optical links is proposed and demonstrated. Differential-link noise figure and dynamic-range improvement are compared to the conventional low-biased modulator configuration for suboctave applications. RIN suppression of 12 dB at 4 GHz is demonstrated.

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