Abstracts

A WDM fiber-radio experiment incorporating a wavelength-self-tunable single-side-band filter

E. Vourch, D. Le Berre and D. Herve. "A WDM fiber-radio experiment incorporating a wavelength-self-tunable single-side-band filter." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1703-1706 vol.3.

Optical single-side-band (OSSB) sources compensate for deleterious chromatic dispersion effects in fiber-radio systems. A wavelength-self-tunable filter based on an iron doped indium phosphide photorefractive crystal is used to provide OSSB signals. The device is incorporated into the WDM fiber-radio transmission of two optical signals modulated at a 16 GHz frequency and carrying 140 Mbit/s data streams.

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