

Integrated Fiber Optic Transmission of FM HDTV and 622Mb/S Data

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We report the integrated transmission of a 622 Mb/s (SONET STS-12 rate) data signal with three frequency-modulated (FM) component HDTV signals over 2 km of single-mode fiber. At -10 dBm received optical power a BER $<10^{-9}$ was measured on the data channel while simultaneously, the unweighed signal/noise ratio (SNR) was over 38 dB for the HDTV signals.

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