

Experimental studi on O/E and E/O converter for optical pulse transmission

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Abstrak

An experimental model of pulse transmission for Optical system with a O/E and E/O converter has been designed and constructed. A multi mode fiber was used as transmission, medium from E/O to Q/E converter and Laser Diode was used as optical source at wavelength 750 nm. The selfoc lens was used to couple the light from, laser diode into fiber. Three detectors were used for detecting the signal transmitted. The characteristic of the system was evaluated by measuring the output power, linearity and characteristic pulse modulation. It is concluded that the characteristics of the constructed system show the applicability of the OE and E/O cover tees in pulse transmission.