Abstract

A 25 and 35 Gbps Absolute Pole Duty cycle division multiplexing (APDCDM) based communication system is designed successfully. A technique for estimation of BER is developed for four users APDCDM based optical communication system, referring to the data recovery rules. The performance parameters like SNR, Q-factor and BER are calculated for the transmission rate 25 and 35 in this system. After design and simulation it is concluded that the performance of system is reduces for higher data transmission rate as compare to lower data transmission rate.

References


**Index Terms**

Computer Science

Circuits and Systems

**Keywords**

Bit error Rate (BER), Signal to Noise Ratio (SNR), Q-factor