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 Gbps 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

Design and Analysis of 25 & 35 Gbps Optical Communication System based on APDCDM Technique


Index Terms

Computer Science

Circuits and Systems

Keywords

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