Abstract

In a 16 Channel, 10 Gbps WDM System with Linearized SOA using feed forward linearization technique the effect of reduced channel spacing has been investigated. The basic mechanism of crosstalk is completely independent of the amplifier but it depends on the spectral overlap of adjacent channel. However In this paper it has been validated that using linearized SOA the system can be extended to 120 Km length with channel spacing as small as 50 GHz. The achieved Q-Factor was 11 at 100km and 4.2 at 120Km.

References

160 Gbps WDM Transmission System using Linearized SOA with 50 GHz Channel Spacing

- Keshav Sood, Jaswinder Singh, Harjit Singh; 4 × 80 Gbps Light wave Link by employing Linearized SOA Using Feed Forward Linearization Approach; Australian Journal of Electrical and Electronics Engineering, accepted for publication in vol. 9 no 3, June 2012.

Index Terms

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Keywords

Feedforward Linearization Technique Soa Channel Spacing Wdm System