Abstract

In Wavelength Division Multiplexing based Passive Optical Network (WDM-PON), multiple wavelength used to separate Optical Network Unit (ONU). Which actually increase the capacity of PON . WDM process can be dense and ultra-dense depending on channel spacing. In this paper we compare performance of Array Waveguide Grating Demultiplexer (AWG DEMUX) and Fiber Bragg Grating based Demultiplexer (FBG DEMUX) in dense and ultra-dense WDM at the data rate of 2.5 gbps. Optical fiber length used is 10 km. The maximum and minimum Q factor is compare and discussed. All the simulation were performed in optisystem 12.0.

References

Comparative Analysis of AWG Demultiplexer and Chirped FBG based Demultiplexer in WDM PON Network

Based Demultiplexers"; the Ninth International Conference on Advanced Semiconductor Devices and Microsystems.

Index Terms

Computer Science
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Keywords
Passive Optical Network Wavelength Division Multiplexing Demultiplexer Array Wave Guide
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