Comparison of Low-Noise Bandwidth in Hospital EDFA Applications

In this paper, a dual-stage extended L-band EDFA with improved gain level is demonstrated by using an Er/Yb/P co-doped fiber-based double-pass structure assisted by a low ...

The structure is able to generate high R-EDFA gain with low noise figure for multiwavelength L-band transmission. The presence of distributed Raman amplification leads to ...

The EDFA analysis function has a selection of various analysis parameters to meet the analysis needs of customers. This section provides a description of the main analysis parameters and some ...

In this paper, the analysis of gain and noise figure(NF) of EDFA is done at different pump power (10, 50, & 100mw) and at different fiber length (10, 30, & 50m) for different pumping configuration i.e. forward ...

This paper presents the optimization of a Double-Pass (DP) Erbium-Doped Fiber Amplifier (EDFA) to enhance the performance of wideband communication systems, L + U band.

In this paper, the steady-state behavior of L-band EDFA with an inline fiber grating laser is studied, and the physical process of signal amplification is simulated and analyzed in details.

Abstract: We demonstrate a high-gain low-noise double-pass tunable EDFA over S- and C+L-bands by discretely introducing fundamental-mode leakage loss in a 16-m-long standard C-band Er3+-doped ...

At low-input signal power of -15 dBm, a maximum gain of 16.7 dB and NF of <8.2 dB have been demonstrated within a wide bandwidth of 60 nm ...

In this application note, the performance of different erbium-doped fiber amplifiers (EDFAs) is assessed by measuring the gain and noise figure in the amplification of two optical sources: a tunable laser ...

In this paper, the effect of wavelength and bandwidth on amplified spontaneous emission noise power (PASE) for wide-band erbium doped fiber amplifier (W-EDFA) has been discussed.

In this lecture we are going to look at some more details of the EDFA, specifically pump inversion, amplifier noise, gain flatness, transient behavior. We are then going to study a different class of fiber ...

In order to observe the performance of different amplifiers (Raman-Edfa, Raman-Soa, Soa-Edfa, Raman-Edfa-Raman), the quality factor versus transmission distance graph is plotted.

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This paper presented an investigation for influences of pump power, signal power and EDF length on the gain and noise figure in an EDFA which pumped by 980 nm and 1480 nm pumps.

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