Comparison of Low Noise and Performance Selection of ODN Passive Components

Both symmetrical and asymmetrical (upstream/downstream) gigabit-capable passive optical network (GPON) systems are described. This Recommendation proposes the physical layer requirements ...

This application note briefly discusses the fundamentals of both internal and external noise and identifies the tradeoffs associated in selecting the optimal amplifier for low noise design.

To illustrate the practical challenges, performance trade-offs for three popular LNA topologies and two process technology implementations are examined.

This study introduces a new design for a low noise amplifier (LNA) consisting of two stages taking advantage of the inherent lossy properties of the ...

This document describes the Gigabit Passive Optical Network (GPON) technology and how it functions.

Abstract--Based on measured four-noise parameters and two-port noise theory, guidelines for integrated LNA (low noise amplifier) design are presented. If arbitrary values of source impedance ...

When you design an LNA, you need to get a grip on how noise gets created, how it moves through cascaded stages, and how your choice of device affects both performance and efficiency.

Technical breakdown of ODN layers, components, optical paths, loss budgets, and deployment principles.

In this paper, we optimize the downstream transmission of eight channels WR-PON over 60 km and 40 km of standard single mode practical fibers (G.655 and G.652) with 10 Gb/s per ...

This article provides an overview of 10 major considerations when designing and optimizing low noise amplifiers for performance, cost, and manufacturability. Both qualitative ...

ADS can be used to design low noise amplifiers much in the same way you have already used it for MAG or MSG designs. Noise circles and available gain circles are the tools that give the most ...

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