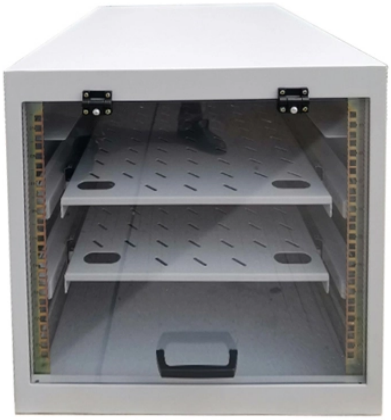
GDR Telecom Site Energy Systems

Optical receiver module AGC circuit



Overview

The TDA520x, TDA521x, TDA522x, TDA7200, TDA7210 and TDA7210V receivers provide an AGC (Automatic Gain Control) circuit that can be used in the active mode or in the inactive low gain mode to extend the dynamic range of the receiver. The circuit diagram of the actual multiplier circuit as illus-trated in Figure 3 makes it easier to determine the multipli-cation constant, M. This change results. Automatic Gain Control (AGC) was implemented in first radios for the reason of fading propagation (defined as slow variations in the amplitude of the received signals) which required continuing adjustments in the receiver's gain in order to maintain a relative constant output signal. An AGC circuit, a closed-loop feedback system, is shown in Figure 1. Since the mixer output stage has a fixed bias current of 300uA. the present inventionis a circuit directed towards ensuring a constant RF output level in optical receivers that are suitable for use in the communications system of FIG.

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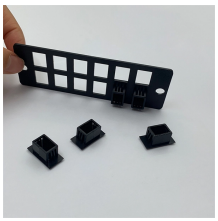
The VLC receiver device is equipped with automatic gain controller (AGC) circuit which functions to control the voltage gain (A VOL) from the output signal although the input signal varies....

An optical receiver circuit with automatic gain control (AGC) for radio-over-fiber (RoF) system is presented. The AGC optical receiver is designed on the standa



This article is intended to provide insight into the effective operation of variable gain amplifiers (VGA) in automatic gain control (AGC) applications. Figure 1 is a general block diagram for ...

Automatic Gain Control (AGC) mode is a feature available in both ViaLite Transmitter and Receiver modules (including Dual Transmitter modules, Transceiver modules, etc.). Download this Guide in ...

The present invention is directed towards an optical receiver including an open loop automatic gain control (AGC) circuit (405). Optical signals received by the optical receiver are...

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Automatic Gain Control (AGC) circuits are employed in many systems where the amplitude of an incoming signal can vary over a wide dynamic range. The role of the AGC circuit is to provide a ...

FIG. 2 is a schematic of a conventional optical receiver that is suitable for use in the headend facility and in the optical nodes and/or FTTH receive for receiving optical signals and for providing ...

The demo board designed for this application contains four circuit blocks. As a differential amplifier with current output, the OPA660 allows users to control the transconductance by varying the total ...

This application note describes a low frequency AGC circuit using a wide dynamic range AD8336 variable gain amplifier (VGA) as the gain control element, an AD736 rms-to-dc converter as the ...

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