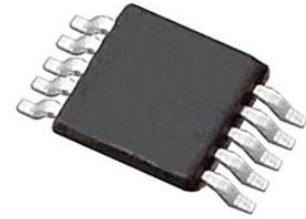


3.3V, 1.25Gbps PECL Limiting Post Amplifier w/High Gain TTL Loss-of-Signal

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	MSOP-10
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for SY88147DLKG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SY88147DL is a high-sensitivity limiting post amplifier designed for use in fiber-optic receivers. These devices connect to typical transimpedance amplifiers (TIAs). The linear signal output from TIAs can contain significant amounts of noise and may vary in amplitude over time. The SY88147DL quantizes these signals and outputs PECL level waveforms.

The SY88147DL operates from a single +3.3V power supply, over temperatures ranging from -40°C to +85°C. With its wide bandwidth and high gain, signals with data rates up to 1.25Gbps, and as small as 5mVPP, can be amplified to drive devices with PECL inputs.

The SY88147DL generates a high-gain loss-of-signal (LOS) open-collector TTL output. The LOS function has a high gain input stage for increased sensitivity. A programmable Loss-of-Signal level set pin (LOS LVL) sets the sensitivity of the input amplitude detection. LOS asserts high if the input amplitude falls below the threshold set by LOS LVL and de-asserts low otherwise. The enable bar input (/EN) de-asserts the true output signal without removing the input signal. The LOS output can be fed back to the /EN input to maintain output stability under a loss-of-signal condition. Typically 3.5dB LOS hysteresis is provided to prevent chattering.

For product comparison, please consider:SY88149CL

## Features

Single 3.3V power supply

DC to 1.25Gbps operation

Low-noise PECL data outputs

High-gain LOS

Chatter-free Open-Collector TTL Loss of Signal (LOS) output with internal 4.75kΩ pull-up resistor

TTL/EN input

Programmable LOS level set (LOS LVL)

Available in a tiny 10-pin MSOP

## Related Products



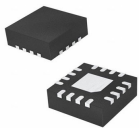
### [SY88149NDLMG](#)

Microchip Technology, Inc  
QFN-16



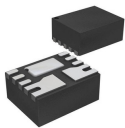
### [SY88349NDLMG](#)

Microchip Technology, Inc  
QFN-16



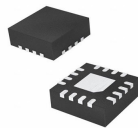
### [SY88063CLMG-TR](#)

Microchip Technology, Inc  
16-VFQFN



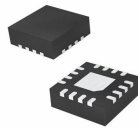
### [SY88053CLMG](#)

Microchip Technology, Inc  
MLF-16



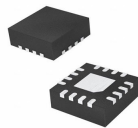
### [SY88349NDLMG-TR](#)

Microchip Technology, Inc  
16-VFQFN



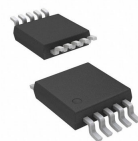
### [SY88149HALMG-TR](#)

Microchip Technology, Inc  
16-VFQFN



### [SY88053CLMG-TR](#)

Microchip Technology, Inc  
16-VFQFN



### [SY88943VKG-TR](#)

Microchip Technology, Inc  
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)