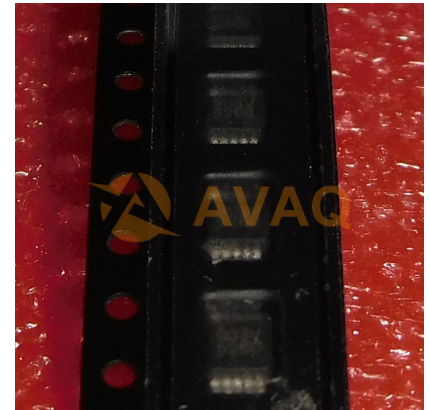



SP Amp Limiting Post Amplifier Single 5.5V 10-Pin MSOP Tube



Images are for reference only

[Inquiry](#)

Manufacturer:	Microchip Technology, Inc
Package/Case:	MSOP10
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

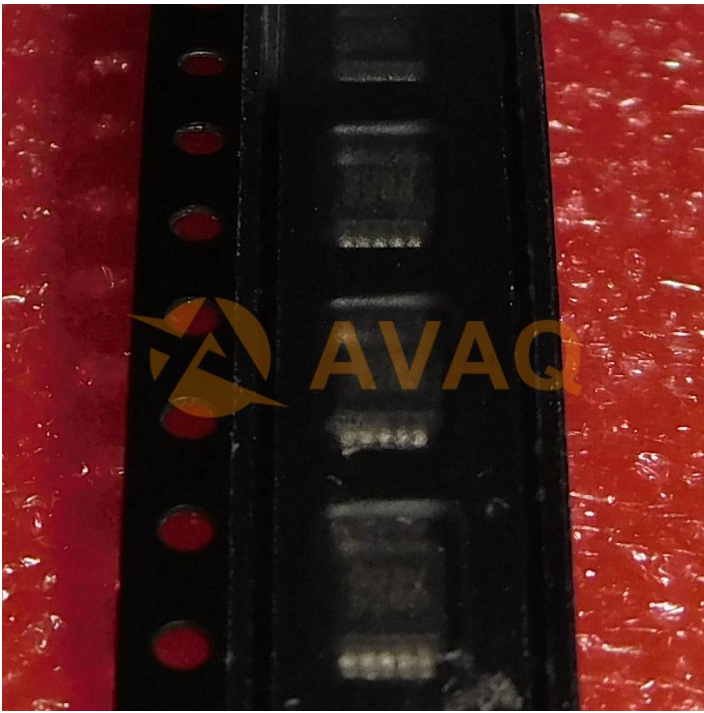
The SY88903V limiting post amplifier with its high gain and wide bandwidth is ideal for use as a post amplifier in fiber-optic receivers with data rates up to 1.25Gb/s. Signals as small as 5mVp-p can be amplified to drive devices with PECL inputs. The SY88903V generates a chatter-free Loss of Signal (LOS) open collector TTL output.

The SY88903V incorporates a programmable level detect function to identify when the input signal has been lost. This information can be fed back to the /EN input of the device to maintain stability under loss of signal condition. The sensitivity of the level detection can be adjusted using LOSLVL. The LOSLVL voltage can be set by connecting a resistor divider between VCC and VREF as shown in Figure 3. Figure 4 and 5 show the relationship between input level sensitivity and the voltage set on LOSLVL.

The LOS output is a TTL open collector output that requires a pull-up resistor for proper operation.

Key Features

- 3.3V and 5V power supply option
- Up to 1.25Gb/s operation
- Low noise
- Chatter-Free LOS Generation
- Open Collector TTL LOS Output
- TTL /EN Input
- Differential PECL inputs for data
- Single power supply
- Designed for use with (Micrel-High-Bandwidth laser diode driver and controller)
- Available in a tiny 10-pin MSOP (3mm) package



Recommended For You

SY88073LMG

Microchip Technology, Inc
VQFN-16

SY88063CLMG

Microchip Technology, Inc
VQFN16

SY88803VKG

Microchip Technology, Inc
MSOP-10

SY88073LMG-TR

Microchip Technology, Inc
VQFN

SY88773VMG

Microchip Technology, Inc
VQFN

SY88993AVKG

Microchip Technology, Inc
MSOP10

SY88083LMG-TR

Microchip Technology, Inc
VQFN

SY88149NDLMG-TR

Microchip Technology, Inc
QFN-16

SY88943VKG

Microchip Technology, Inc
MSOP

SY88993AVKGIR

Microchip Technology, Inc
MSOP10

SY84113BUMG

Microchip Technology, Inc
VQFN16

SY88083LMG

Microchip Technology, Inc
VQFN

SY88903ALKGIR

Microchip Technology, Inc
MSOP10

MCP609-I/SL

Microchip Technology, Inc
SOP14

MCP602-I/P

Microchip Technology, Inc
DIP