

CSI/Model LA-105
10Gbps Limiting Amplifier

Product Specifications

August 2007

Input Connectors: Differential SMA, 50Ω
Output Connectors: Differential SMA, 50Ω
Wall Plug Unit: Universal Voltage AC adapter

	Min	Nominal	Max
Midband Gain (dB)	30	36	
3-dB Frequency Bandwidth (GHz)	9	12	
Low-Frequency Cutoff (kHz)		250	350
Rise / Fall Time (ps)			19/20
Differential Output Swing (mVpp)	500	750	950
Peak to Peak Jitter (ps)		12	16
Input Sensitivity (mVpp)		4.5	

CSI model LA-105 limiting amplifier is a post amplifier that is typically used at the input of a bit error rate tester (BERT) for error detection and sensitivity measurements. LA-105 offers high gain and wide bandwidth, suitable for operation at data rates up to 10 Gbps. This unit provides CML-level outputs with input levels as low as 5 mV differential, with a sensitivity level of 4.5 mVpp.

LA-105 is powered by a wall plug unit (provided). There is a potentiometer for adjusting the slice level.

California Scientific manufactures high-speed optoelectronic test equipment for the fiber optic community.



CSI California Scientific, Inc.

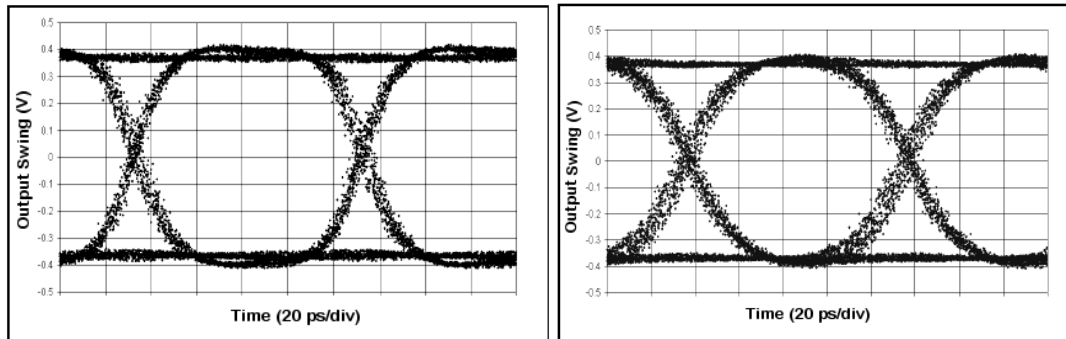


Figure 1. 10Gbps eye diagrams at the input level of 1.28Vpp (left) and 10mVpp (right)

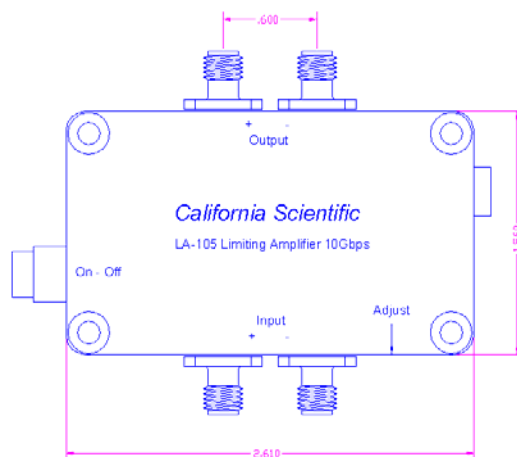


Figure 2. Dimensions of LA-106 are shown in inches. They correspond to: L = 66.3mm, W = 39.6mm H = 25.4mm
Physical separation of the differential input and output connectors is 15.24mm.