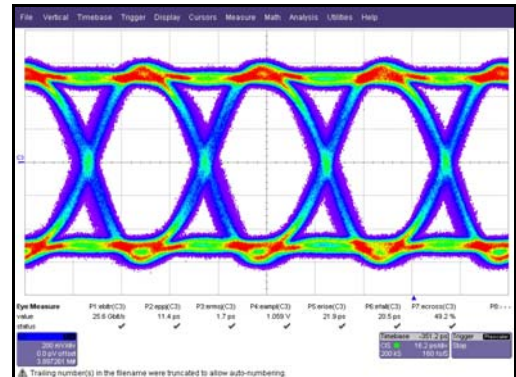




**Model 8020B-4 Splitter with 4 Channel
Differential Programmable Output**



25Gbps Eye Diagram Performance

Features:

- Includes input splitters plus 8 integrated Programmable Limiting Amplifier (PLA) modules for 4 channel differential use
- Driven by a simple connection to a BERT or pattern generator
- Output is DC coupled broadband limiting amplifier
- Programmable output amplitude, offset, and crossing point
- Convenient front panel touch screen GUI or USB computer control

Output Performance:

- 20ps typical 10% to 90% rise and falltime
- < 1 ps RMS typical added jitter
- Output amplitude programmable from 250mV to 2.0V within -2.0V to 3.0V window
- 35% to 65% programmable crossing point

Applications:

- High-speed serial data testing up to 25Gbps
- Multi-channel parallel serial data testing
- Design validation and victim-aggressor testing
- Parallel production testing for increased through-put

The Picosecond Pulse Labs introduces a new tool for multi-channel serial data testing – the **Model 8020B LABware with Splitter and Programmable Limiting Amps** (PLA's). This innovative and flexible product is targeted at providing multi-channel testing in an economical form. When combined with a single channel BERT or pattern generator, the Model 8020B provides 4 channels of differential high-speed serial data test signals – *all with industry leading performance.*

Ordering Information

Model 8020B-4	LABware with two 1:4 splitters and 8 integrated PLA modules for 4 differential output channels
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Input/Output Specifications:

Parameter	Min	Typ	Max	Notes
Output				
Risetime/falltime				
10% to 90%		20 ps		With typical risetime input
20% to 80%		14 ps		With typical risetime input
Amplitude Range	250 mV		2.0 V	Amplitude is programmable
Voltage Window	-2.0V		+3.0V	Window/offset is programmable
Crossing Point Adjust	35%		65%	Crossing point is programmable
Impedance		50 Ω		
Added Jitter		< 1 ps RMS		
Return Loss	-10 dB			Frequency < 10 GHz
Connector type		2.92 mm		
Input				
Data Rate	150 Mbps		25 Gbps	Input is DC coupled
Risetime/falltime				
10% to 90%		40 ps		
20% to 80%		25 ps		
Amplitude	1.2 V		2.0 V	Takes into account 1:4 splitter
Damage Threshold			2.4 V	Greater amplitudes will cause damage.
Input Trigger Level		0 V		Input threshold for transitions
Input Bias Current		4 mA		Source needs to sink 4mA at 0V
Impedance		50 Ω		
Connector Type		SMA		
Interface/Mechanical/Other				
Programming Interface		GUI, USB		Front panel touch screen GUI and USB computer programmable
Dimensions		TBD		
Input power		110 V / 220 V		Plugs into AC main

