



2.5Gbps LC Connectorized GaAs PIN plus Pre-Amplifier Photodiode

Part No. RLC-P85P426-3V

Features

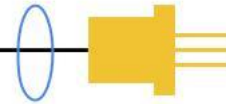
- Pre-aligned LC-type receptacle for multi-mode fiber communication
- Design for Small Form Factor transceivers
- Suitable to run 1.0625Gbps to 2.5Gbps
- With opposite data output pin assignment
- Single power supply +3.3V



Specifications

Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage Temperature	-40	100	°C	
Operating Temperature	-40	85	°C	
Lead Solder Temperature		260	°C	10 seconds

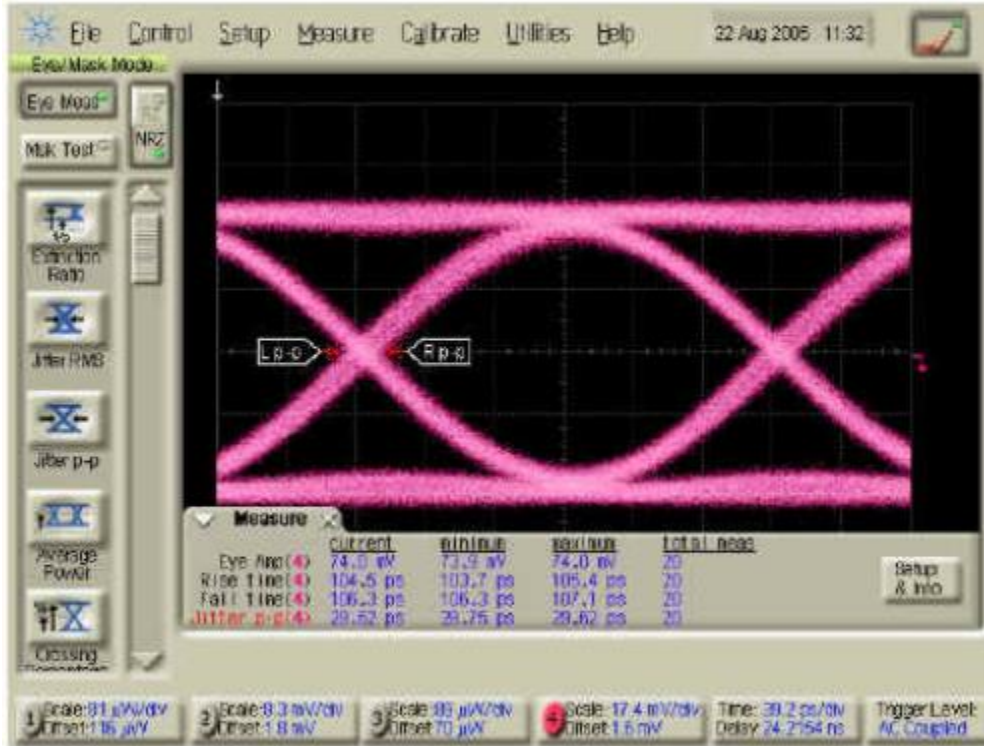
Electro-Optical Characteristics (Typical values are at +3.3V at 25 °C)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}		25	35	mA	no loads
Differential Responsivity	R_d	1.8	2.6	3.8	mV/ μ W	$R_{load}=100\text{ohm}$, $P=-15\text{dBm}$, $\lambda=850\text{nm}$
Single Ended Responsivity	R_s	0.9	1.3	1.9	mV/ μ W	$R_{load}=50\text{ohm}$, $P=-15\text{dBm}$, $\lambda=850\text{nm}$
Small-Signal Bandwidth	BW	1.6			GHz	$P=-15\text{dBm}$
Low-Frequency Cut off	LF			100	kHz	
Rise / Fall Time (20%~80%)	tr/tf		115	200	ps	$P=-15\text{dBm}$, $\lambda=850\text{nm}$
Saturation Power	P_{Sat}	0			dBm	
Single Ended Output Impedance	R_O		50		ohm	
Maximum Differential Output Voltage		220	280		mV p-p	$R_{load}=100\text{ohm}$, $P=0\text{dBm}$, $\lambda=850\text{nm}$
Wavelength	λ	770		860	nm	
Sensitivity				-20	dBm	$\lambda=850\text{nm}$ @2488.32Gbps, PRBS7, ER=10dB, BER=1E-10



Typical Characteristics

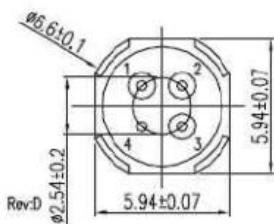
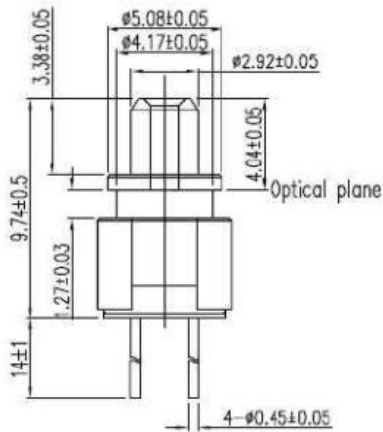
Eye Diagram

R_{load} = 50ohm, P = -15dBm @2488.32Mbps, 850nm, PRBS 7.



tr=104.5ps, tf=106.3ps, Jitter p-p=29.62ps

Outline Dimensions (unit: mm)



Pinout:

1. Dout
2. Vcc
3. Dout
4. Gnd

Note: Specifications are subject to change without notice.