



## RLC-P85P8255-3V

25Gbps LC Connectorized GaAs PIN Photodiode with Pre-Amplifier and Flexible Circuit

Data Sheet



### Product Overview

The Lasermate RLC-P85P8255-3V is a high-speed GaAs PIN photodiode module operating in the 770–860 nm wavelength spectral range. It features an LC receptacle with an integrated flexible circuit and is designed for fiber optic data communication applications. This module supports data rates up to 25.78125 Gbps, making it ideal for Small Form Pluggable (SFP) transceiver applications.

### Features

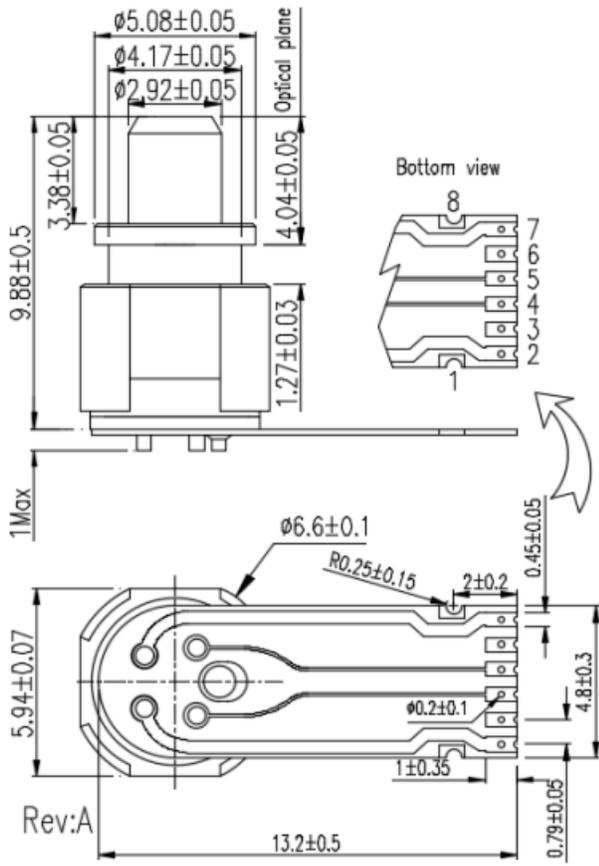
- LC-type optical submodule with flexible circuit attached
- Designed for Small Form Pluggable (SFP) transceivers
- Supports data rates up to 25.78125 Gbps
- Photocurrent monitoring available
- Single +3.3 V power supply

### 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
Flex Attach Temperature		370	°C	10 seconds

Electro-Optical Characteristics ( $T_A = 25^\circ$ )						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	$V_{CC}$	3.0	3.3	3.5	V	
Supply Current	$I_{CC}$		29	37	mA	no loads
Small-Signal Bandwidth	BW		17		GHz	$P = -10\text{dBm}$
Low-Frequency Cut off	LF		5	100	kHz	
Saturation Power	$P_{Sat}$	2			dBm	$\lambda = 850\text{nm}$ @25.78125Gbps, PRBS31, ER=4.5dB, BER=5E-5
Single Ended Output Impedance	$R_O$		50		ohm	
Wavelength	$\lambda$	770		860	nm	
Sensitivity				-14.5	dBm	$\lambda = 850\text{nm}$ @25.78125Gbps, PRBS31, ER=4.5dB, BER=5E-5

Outline Dimensions (unit: mm)



Pinout:

Pin no.	Function
1	Gnd
2	Vcc
3	Gnd
4	Dout(+)
5	Dout(-)
6	Gnd
7	Isource
8	Gnd

Note: Specifications are subject to change without notice.