



## RLC-P85P8255-3V

### 25Gbps LC Connectorized GaAs PIN PD plus Pre-Amplifier with Flex

#### Overview

The Lasermate RLC-P85P8255-3V is a high speed, 25Gbps, 770nm-860nm wavelength spectral range, GaAs photodiode, LC receptacle with flexible circuit designed for use in fiber optic data communication applications.



#### Features

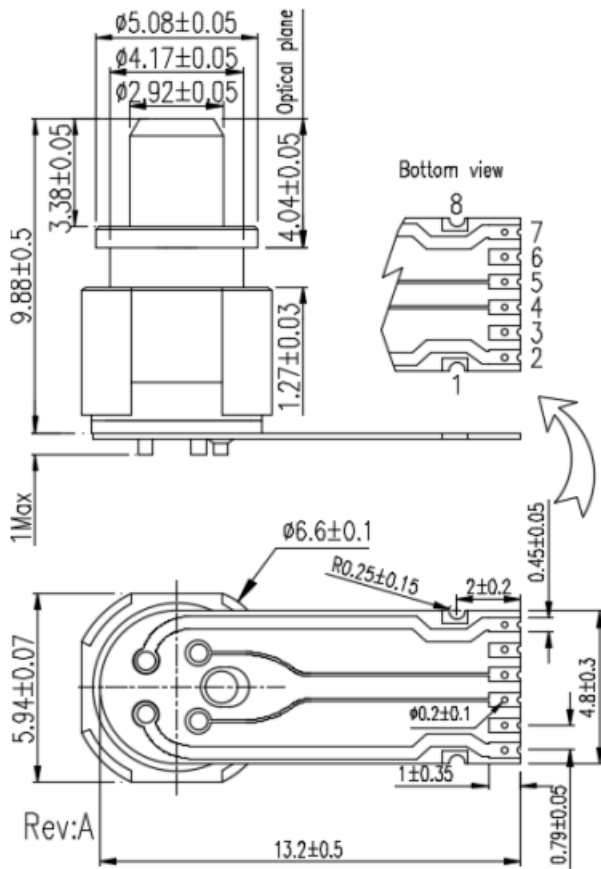
- LC-type optical submodule with flexible circuit attached
- Design for Small Form Pluggable transceivers
- Supports up to 25.78125Gbps application
- Photocurrent monitoring available
- Single power supply +3.3V

#### 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
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.