



## RLC-M13P8256-3V

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

#### Overview

The Lasermate RLC-M13P8256-3V is a high speed, 25Gbps, high responsivity, 1260-1360nm wavelength spectral range, InGaAs photodiode, LC receptacle with flexible circuit designed for use in fiber optic data communication applications.



#### Features

- LC-type optical submodule with flexible circuit attached
- Supports up to 25Gbps 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 <sub>A</sub> = 25°)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	V <sub>CC</sub>	3.0	3.3	3.5	V	
Supply Current	I <sub>CC</sub>		31	45	mA	No loads
Differential Responsivity	R <sub>d</sub>		0.55		mV/uW	R <sub>load</sub> =100ohm, P=-10dBm, λ=1310nm
TIA RSSI	Slope		1		mA/mA	TIA RSSI
	Offset		6	10	nA	
	Accuracy		1	2	%	
Small-Signal Bandwidth	BW		17		GHz	In TIA linear gain region
Low-Frequency Cut off	LF		30		kHz	
Saturation Power	P <sub>Sat</sub>	2			dBm	λ=1310nm @25.78125Gbps, PRBS31, ER=4.3dB, BER=5E-5
Single Ended Output Impedance	R <sub>O</sub>		50		ohm	
Wavelength	λ	1260		1360	nm	
Optical Return Loss	ORL	27			dB	λ=1310nm
Sensitivity				-14.0	dBm	λ=1310nm @25.78125Gbps, PRBS31, ER=4.3dB, BER=5E-5

