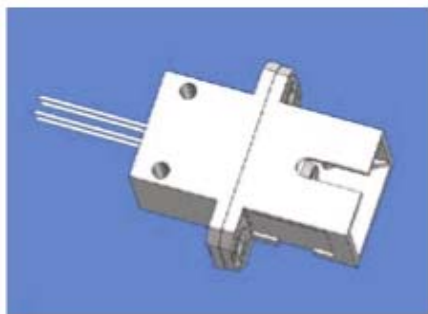




Features

- 1300nm or 1550nm Wavelength
- High Optical Power
- Low Operating Current
- High Operating Temperature
- High Speed
- Low Modal Noise
- For Single-mode & Multi-mode use
- Custom Designed SC Receptacle
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Condition	Rating	Unit
LED Reverse Voltage	V_{rLED}	CW	2.5	V
Forward Current	I_f	CW	150	mA
Operating Temperature	T_{opr}	-	-20 ~ 60	°C
Storage Temperature	T_{stg}	-	-30 ~ 80	°C

(All optical data refer to coupled 9/125 μ m SM & 50/125 μ m MM fiber)

Optical and Electrical Characteristics $\lambda=1300$ nm (Tc=25°C)

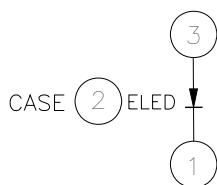
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1260	1310	1340	nm	CW
Spectral Width	$\Delta \lambda$	30	-	70	nm	CW (FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_o	10	30	-	μ W	CW at $I_{op}=80$ mA
L		50	75	-		
M		100	120	-		
H		150	-	-		
Output Power (MM, 50/125 μ m)	P_o	50	-	-	μ W	CW at $I_{op}=80$ mA
L		100	-	-		
M		200	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10$ nm
Forward Voltage	V_f	-	1.2	2	V	CW
Rise Time	T_r	-	1.5	-	ns	-
Fall Time	T_f	-	2.5	-	ns	-
Output Power Variation		-	4	-	dB	25°C to 70°C, $I_{op}=30$ mA

(All optical data refer to coupled 9/125 μ m SM & 50/125 μ m MM fiber)

Optical and Electrical Characteristics $\lambda=1550\text{nm}$ ($T_c=25^\circ\text{C}$)

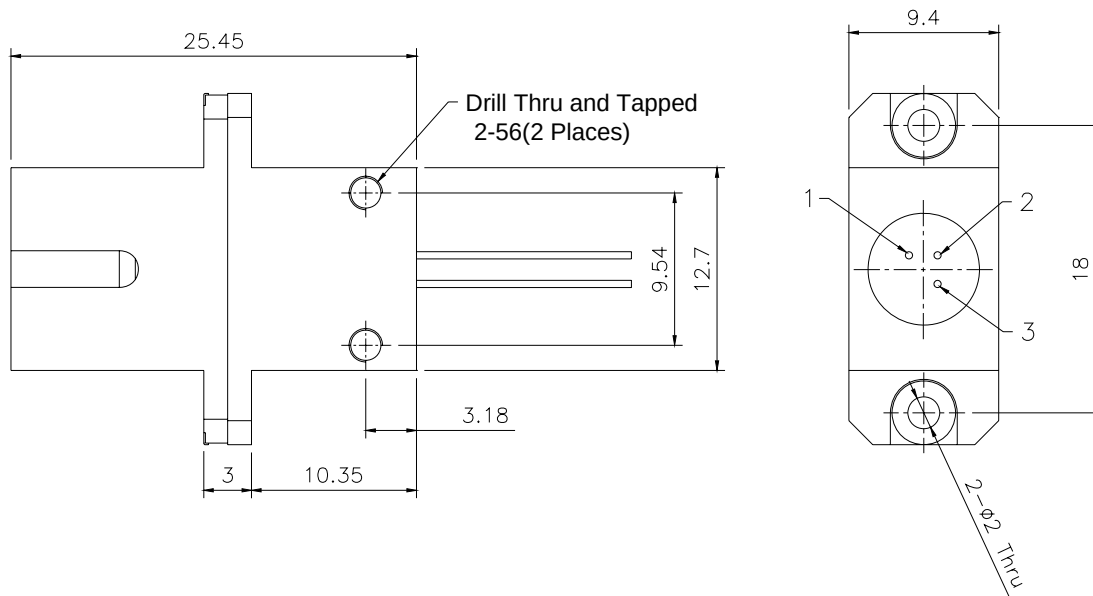
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1510	1550	1580	nm	CW
Spectral Width	$\Delta \lambda$	45	-	100	nm	CW (FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_o				μW	CW at $I_{op}=80\text{mA}$
L		10	-	-		
M		20	-	-		
H		30	-	-		
Output Power (MM, 50/125 μ m)	P_o				μW	CW at $I_{op}=80\text{mA}$
L		30	-	-		
M		50	-	-		
H		70	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10\text{nm}$
Forward Voltage	V_f	-	1.2	1.7	V	CW
Rise Time	T_r	-	1.5	-	ns	-
Fall Time	T_f	-	2.5	-	ns	-
Output Power Variation		-	4	-	dB	25°C to 70°C , $I_{op}=30\text{mA}$

Pin Assignment



Pin 1: ELED Cathode
Pin 2: Case
Pin 3: ELED Anode

Packaging Dimension (Units in mm)



Ordering Information

EDR-L-XXB-X-XSCH-XX

Family	Device	Wavelength	Power	Connector	Package Option
EDR=ELED Receptacle	L=Long	30=1300nm 55=1550nm	L/M/H/U	SC	H=SC-H
		Tolerance B=+/-40nm		Fiber S=9/125um M=50/125um	
				RoHS Compliant	

Blank/G5/GR

Blank = RoHS non-compliant product

G5 = RoHS 5/6-compliant product (lead exemption)

GR = Full RoHS compliant product (no exemption)

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notice

IMPORTANT NOTICE!

All information contained in this document is subject to change without notice, at Source Photonics's sole and absolute discretion. Source Photonics warrants performance of its products to current specifications only in accordance with the company's standard one-year warranty; however, specifications designated as "preliminary" are given to describe components only, and Source Photonics expressly disclaims any and all warranties for said products, including express, implied, and statutory warranties, warranties of merchantability, fitness for a particular purpose, and non-infringement of proprietary rights. Please refer to the company's Terms and Conditions of Sale for further warranty information.

Source Photonics assumes no liability for applications assistance, customer product design, software performance, or infringement of patents, services, or intellectual property described herein. No license, either express or implied, is granted under any patent right, copyright, or intellectual property right, and Source Photonics makes no representations or warranties that the product(s) described herein are free from patent, copyright, or intellectual property rights. Products described in this document are NOT intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. Source Photonics customers using or selling products for use in such applications do so at their own risk and agree to fully defend and indemnify Source Photonics for any damages resulting from such use or sale.

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED ON AN "AS IS" BASIS. Customer agrees that Source Photonics is not liable for any actual, consequential, exemplary, or other damages arising directly or indirectly from any use of the information contained in this document. Customer must contact Source Photonics to obtain the latest version of this publication to verify, before placing any order, that the information contained herein is current.

© Copyright Source Photonics, Inc. 2009

All rights reserved