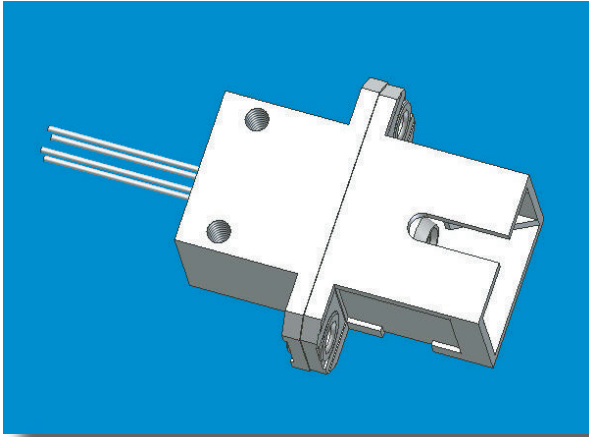


EDR-L-XXB-X-XSCH-XX



Features

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

Absolute Maximum Ratings (Tc=25°C)

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

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

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condi-
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, 9/125μm)	P_o	10	30	-	μW	CW
L		50	75	-		
M		100	120	-		
H		150	-	-		
U		-	-	-		
Output Power (MM, 50/125μm)	P_o	50	-	-	μW	CW
L		100	-	-		
M		200	-	-		
H		-	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10nm$
Foward Voltage	V_f	-	1.2	2.0	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	

EDR-L-XXB-X-XSCH-XX

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

Optical and Electrical Characteristics 1550nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
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, 9/125μm)	P_o				μW	CW
L		10	-	-		
M		20	-	-		
H		30	-	-		
Output Power (MM, 50/125μm)	P_o				μW	CW
L		30	-	-		
M		50	-	-		
H		70	-	-		
Spectral Ripple		-	-	10	%	$\lambda \pm 10nm$
Forward Voltage	V_f	-	1.2	1.7	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	

Ordering Information

EDR-L-XXB-X-XSCH-XX

Family
EDR=ELED Receptacle

Device
L=Long

Wavelength
30:1300nm
55:1550nm

Tolerance
B=+/- 40nm

Power
L/M/H/U

Fiber
S=9/125μm
M=50/125μm

Connector
SC = SC

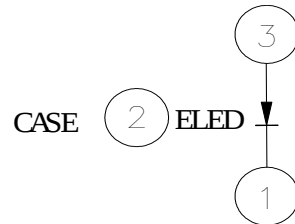
Package Option
H=SC-H

RoHS Compliant
-/G5/GR
Blank = RoHS non-compliant product
G5 = RoHS 5/6-compliant product (lead exemption)
GR = Full RoHS compliant product (no exemption)

EDR-L-XXB-X-XSCH-XX

Pin Assignment

Units in mm.

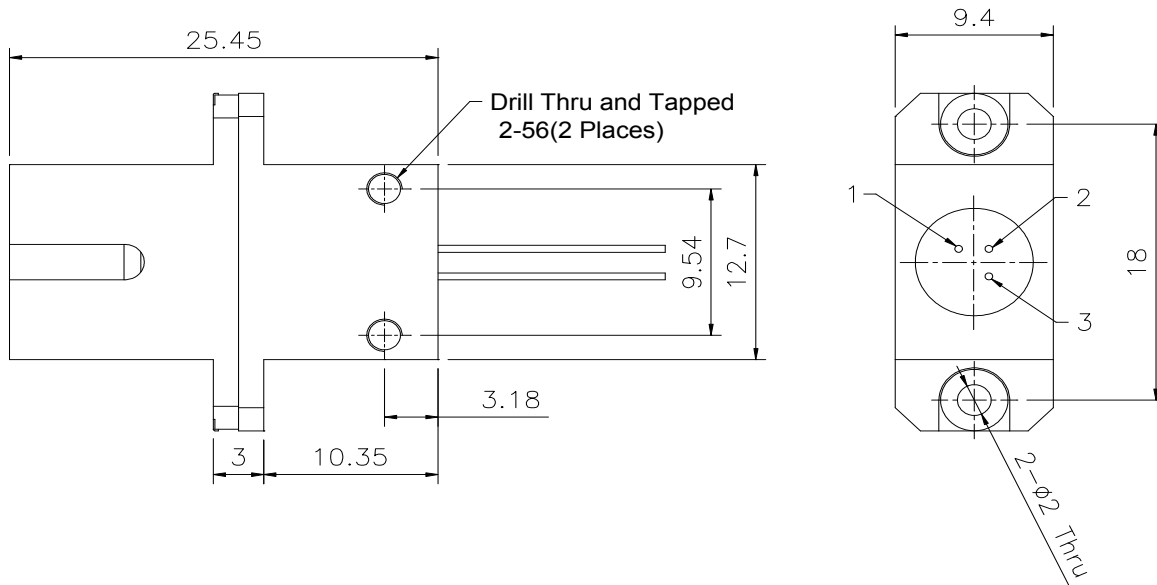


Pin 1: ELED Cat hode

Pin 2: Case

Pin 3: ELED Anode

Package Style: H Type – "SC-H"



EDR-L-XXB-X-XSCH-XX

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 Luminent's sole and absolute discretion. Luminent 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 Luminent 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.

Luminent 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 Luminent 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. Luminent customers using or selling products for use in such applications do so at their own risk and agree to fully defend and indemnify Luminent 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 Luminent 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 Luminent to obtain the latest version of this publication to verify, before placing any order, that the information contained herein is current.

© Luminent, Inc. 2005
All rights reserved