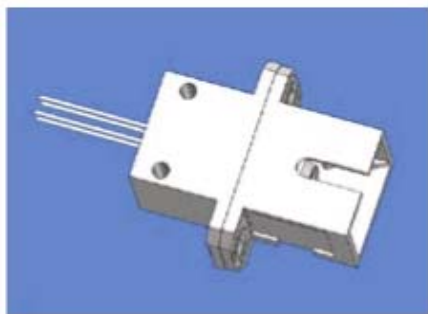




Features

- 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)

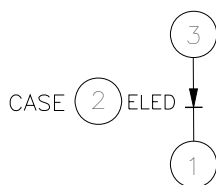
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1260	1310	1340	nm	CW
Spectral Width	$\Delta \lambda$	30	-	70	nm	CW (FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_o	10	30	-	μ W	CW at $I_{op}=80$ mA
L		50	75	-		
M		100	120	-		
H		150	-	-		
Output Power (MM, 50/125 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 $\lambda=1550\text{nm}$ ($T_c=25^\circ\text{C}$)

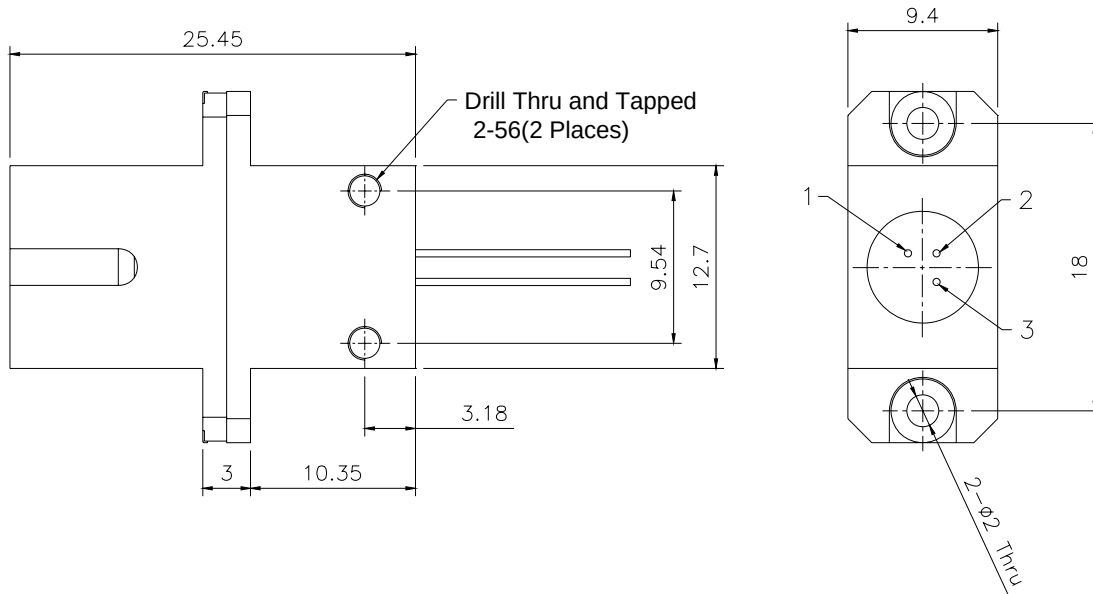
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Wavelength	λ	1510	1550	1580	nm	CW
Spectral Width	$\Delta \lambda$	45	-	100	nm	CW (FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_o				μW	CW at $I_{op}=80\text{mA}$
L		10	-	-		
M		20	-	-		
H		30	-	-		
Output Power (MM, 50/125 μ m)	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	Tolerance	Power	Connector	Package Option
EDR=ELED Receptacle	L=Long	30=1300nm 55=1550nm	B=+/-40nm	L/M/H/U	SC	H=SC-H
					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.

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